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Safety Instructions

1. The AC adapter isolates this equipment from the AC supply.
2. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a soft cloth to clean the monitor housing and a tape to stick dust and fingerprints on the screen panel.
3. Slots and openings on the back or top of the cabinet are provided for ventilation. They must not be blocked or covered. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
4. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
5. Never push objects of any kind, or spill liquid of any kind into this product.
6. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltages or other risks. If any above mentioned misuse or other accident (dropping, mis-operations) occurs, contact qualified service personnel for servicing.
7. The power supply cord serves as a power disconnect device for pluggable equipment. The socket outlet shall be installed near the equipment and shall be easily accessible.

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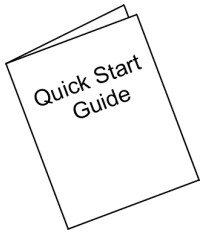
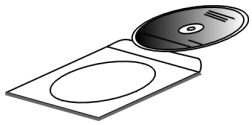
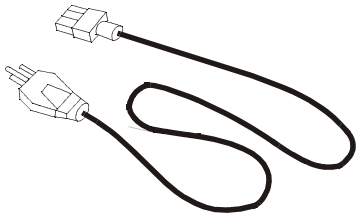
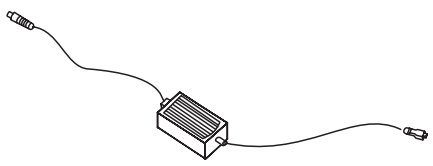
Unpacking

Please check you have the following items. If they are missing or are damaged, please contact the dealer immediately at which you purchased the good.

LCD monitor	
Quick Start Guide	
CD-ROM	
Power cord	
Power Adaptor	

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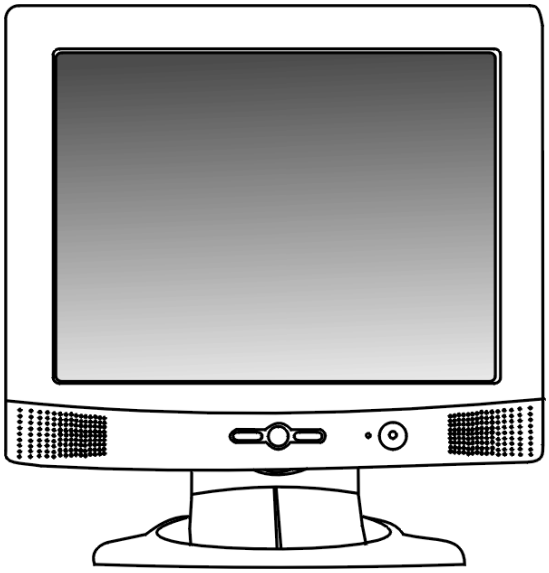
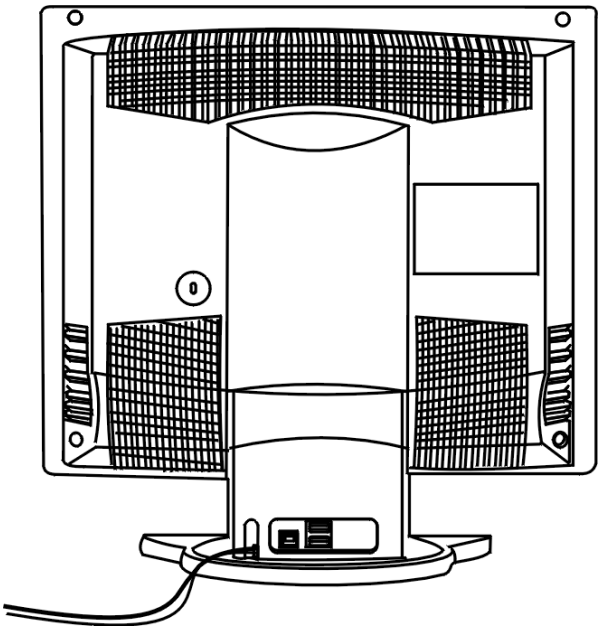
Views of the Monitor

Front View



Back View (1)



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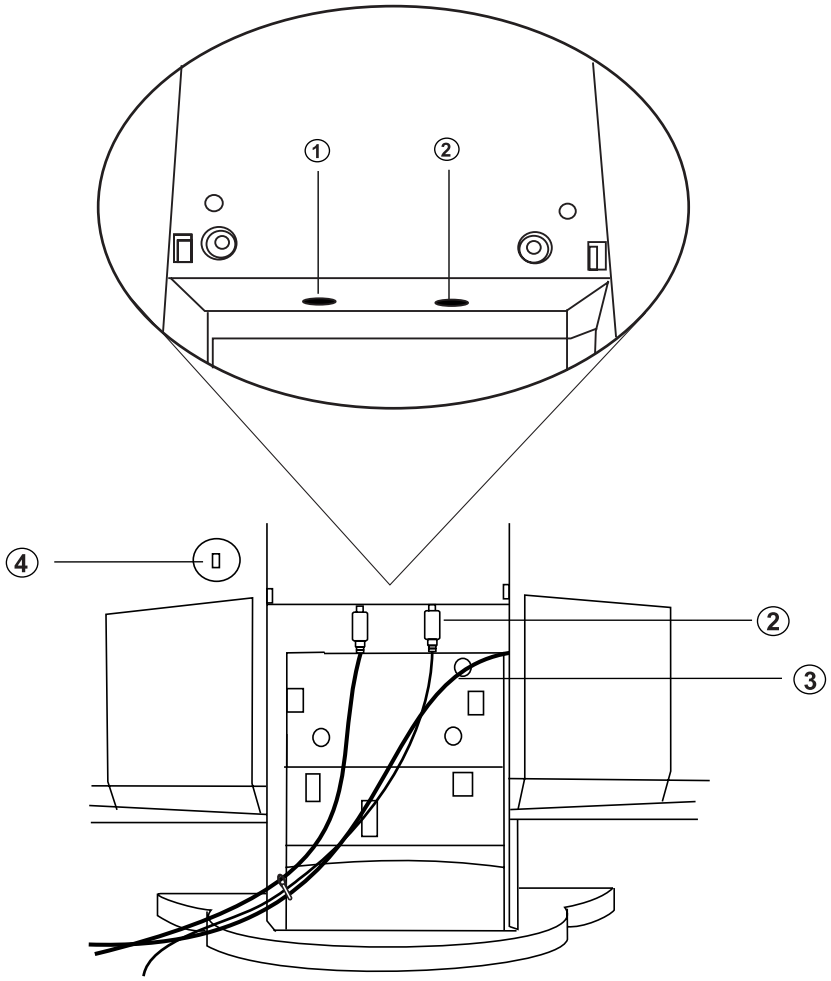
Back View (2): Removal of rear cover and base cover



1. Power outlet	2. Audio jack
3. Video Cable	4. Kensington lock

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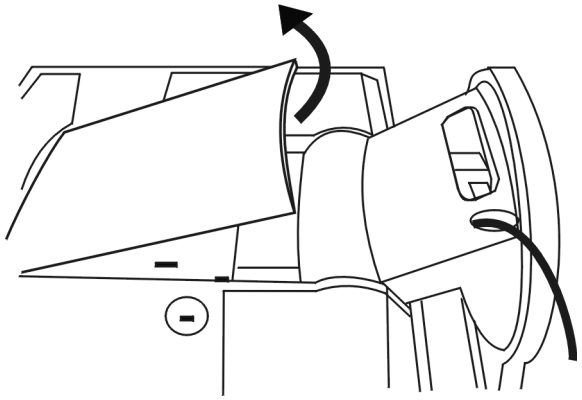
Installation

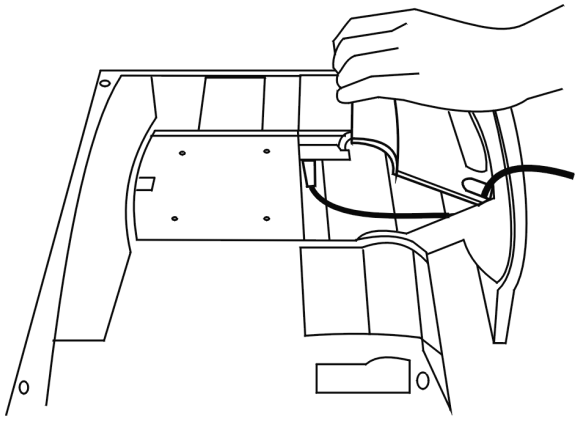
Hardware Installation

A. Make sure that the computer and monitor's power are both turned off. Please follow the steps to install your LCD monitor.

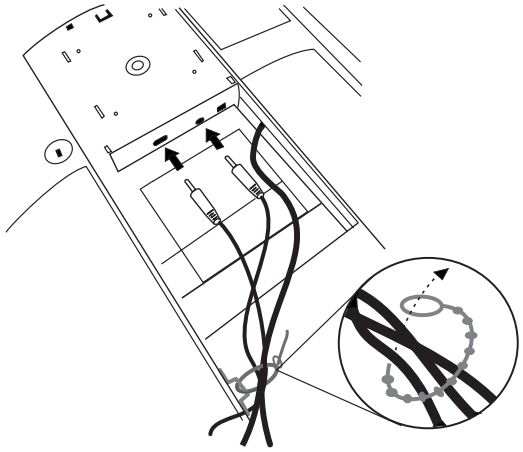
1. Lay the monitor on the desk. Take off the rear cover.



2. Then take off the base cover.



3. Connect the power cord to your LCD monitor. then connect audio cable to the Audio Input of Acer LCD monitor.



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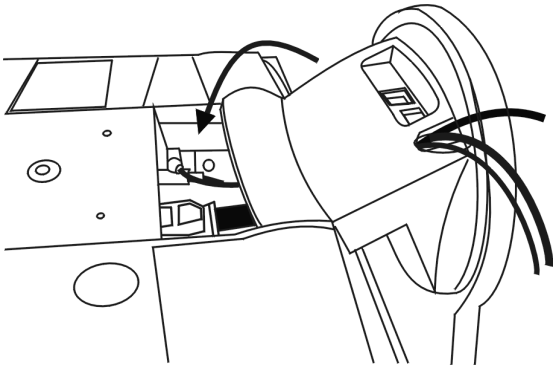
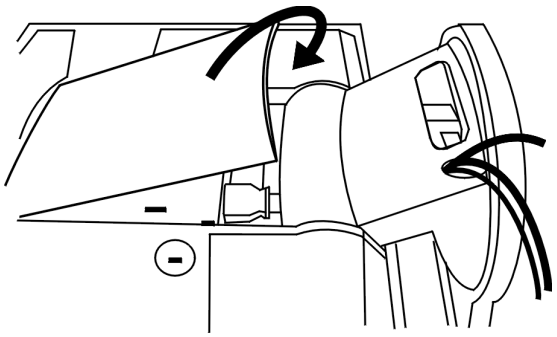
4. Put base cover back.



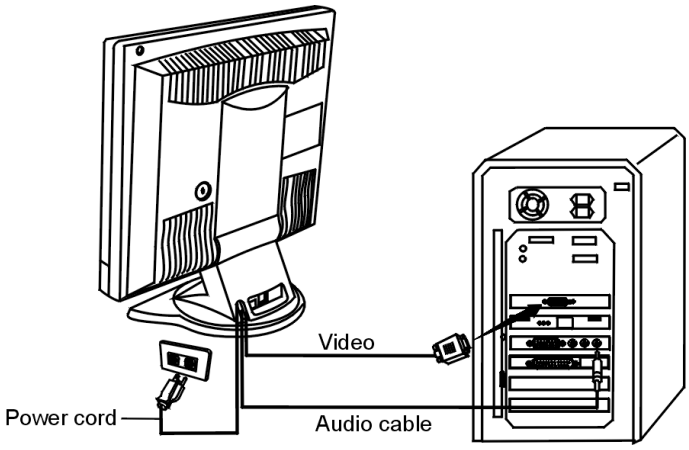
5. Put the rear cover back.



B. Connect the audio cable to your computer.

C. Connect the signal cable, which is directly attached to the monitor, to the VGA output of the graphics card on the computer.

D. Connect the power cord at the back of the monitor to an AC power socket. Please make sure that the socket is not blocked or covered, so you can disconnect the unit from AC supply if you need to. Your monitor is equipped with an automatic power supply for a voltage range from 100 to 240 Volt at a frequency of 50 to 60 Hz. Be sure that your local power is within the supported range. If you are unsure, ask your electricity supplier.



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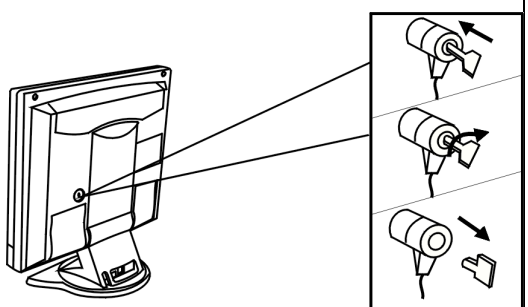
Monitor Security Lock Installation

The monitor can be secured to your desk or any other fixed object with Kensington lock security product. The cable can be attached to a slot located on the rear of your monitor.

1. Insert the lock in the slot located on the rear of the monitor.
2. Turn the key to lock the Security Lock.
3. Remove the key and store it in a safe place.

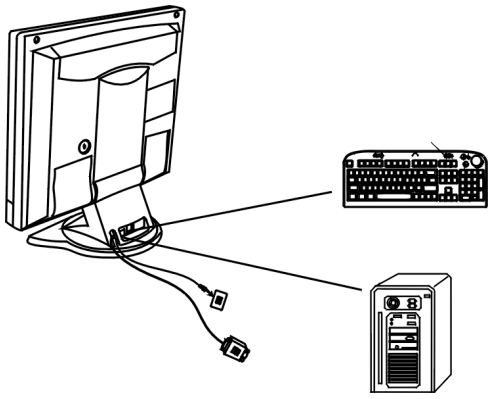


The Kensington lock is not Acer Accessory. It cannot be ordered from Acer. Contact your reseller for more information.

USB Installation (Optional)

A USB-Hub is integrated in the base of your monitor pedestal. USB connectors automate peripheral connection by using plug&paly installation procedures.

1. Connect your USB Hub to your computer with USB cable.
2. Connect USB compatible devices such as a keyboard, mouse and so on to any of 2 downstream connectors.



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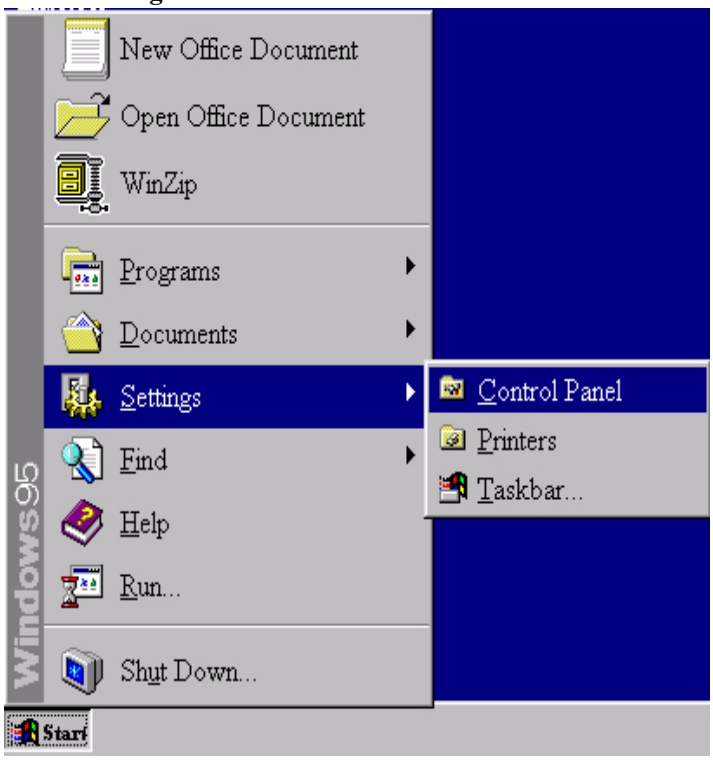
Software Installation

A. Microsoft® Windows® 95 / 98 / 2000

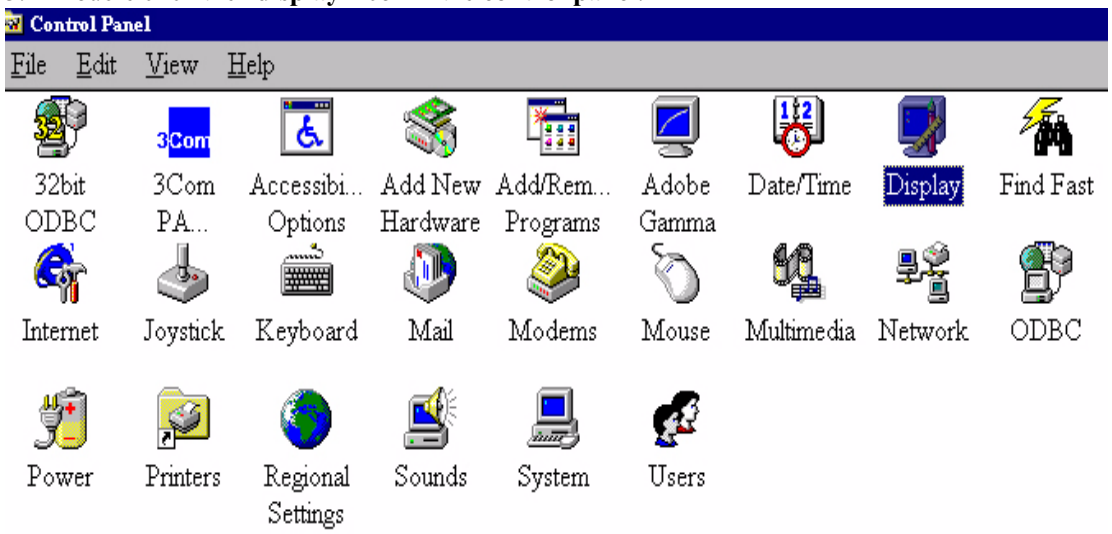
If you are using Windows 95, Windows,98 or Windows 2000 as an operating system, you have to set up the correct monitor driver.

Windows 95. The first time you start Windows with a new monitor, the system will detect it and automatically installs the driver for plug and play displays. To install the current driver from CD, proceed as follows:

1. Insert "**Acer LCD Monitor**" CD-ROM into your CD-ROM Driver.
2. Click "**Start**" then "**Settings**".



3. Double click the "**display**" icon in the **control panel**.



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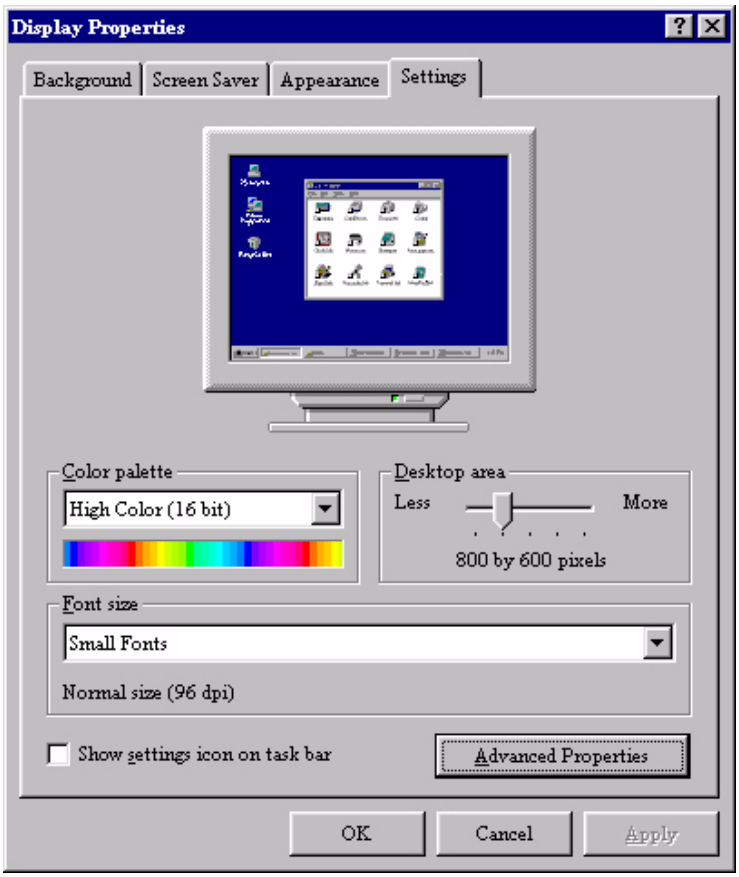
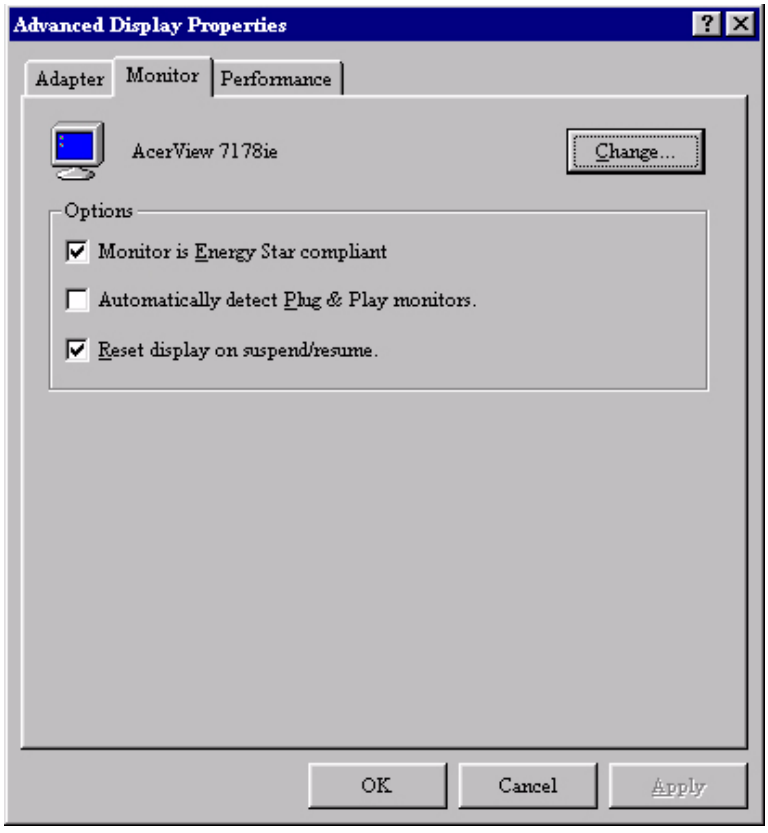
4. From the "**Display properties**" window, select the "**Settings**" tab. Click the "**Advanced Properties**" button in the bottom right corner.



5. Select the "**Monitor**" tab. Click the "**Change**" button in the top right corner.



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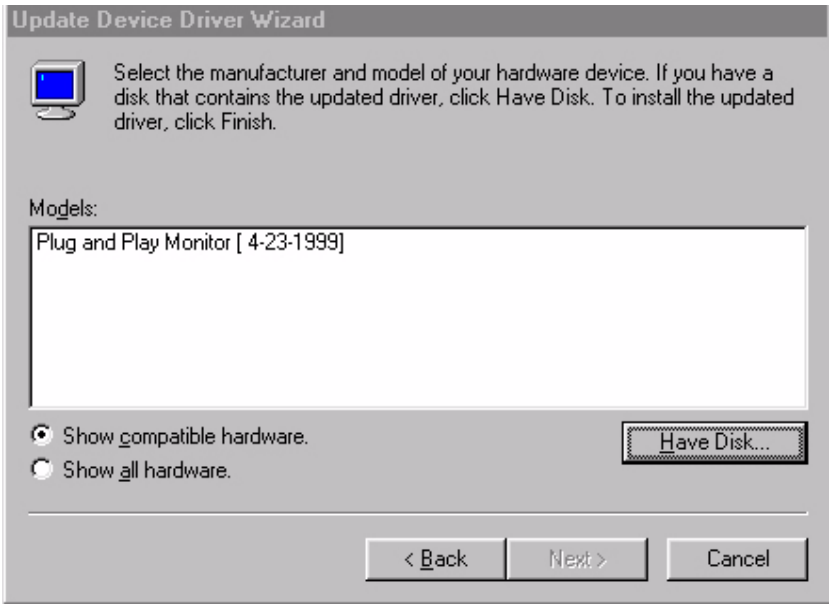
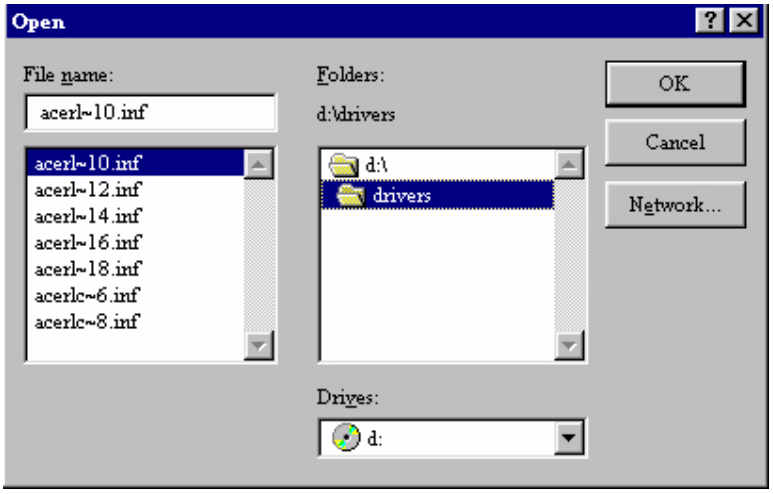
6. Now click the "**Have disk**" button in the bottom right corner. Another window appears, select the "**Browse**" button.


Update Device Driver Wizard
Select the manufacturer and model of your hardware device. If you have a disk that contains the updated driver, click Have Disk. To install the updated driver, click Finish.
Models:
Plug and Play Monitor [4-23-1999]
Show compatible hardware.
Show all hardware.
Have Disk...
< Back
Next >
Cancel

7. The drive selection is located at the bottom of the window in the center. Insert the CD supplied with your monitor into your computer and select the CD-drive.
8. In the field above the drive selection, change to the "**Drivers**" folder. The current driver files are located there. Press "**OK**" and the window closes.



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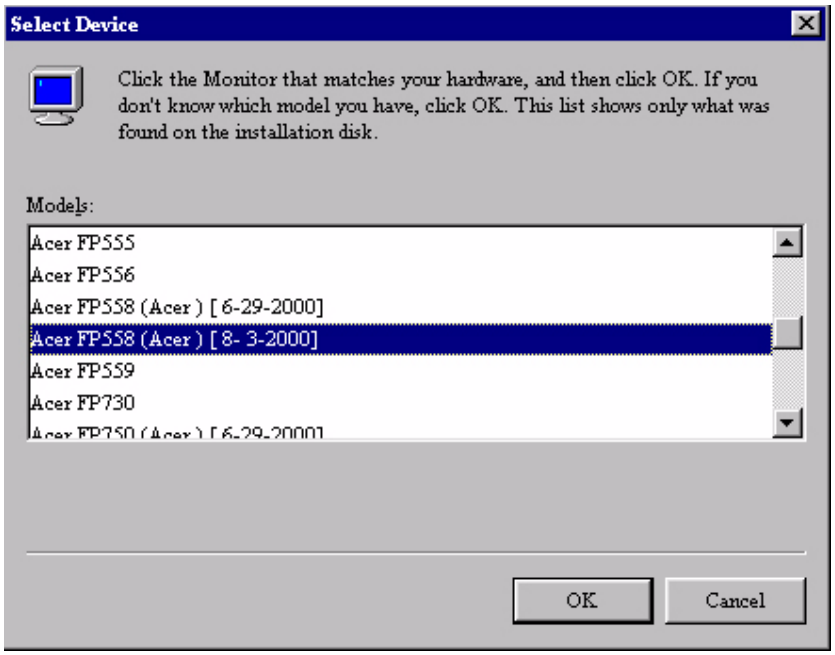
9. By pressing "**OK**" again in the next window you will be given a list of compatible devices. Select "**FP751"** from the list and press "**OK**" again.


Select Device
Click the Monitor that matches your hardware, and then click OK. If you don't know which model you have, click OK. This list shows only what was found on the installation disk.
Models:
Acer FP555
Acer FP556
Acer FP558 (Acer) [6-29-2000]
Acer FP558 (Acer) [8- 3-2000]
Acer FP559
Acer FP730
OK
Cancel

10. Now you are back to "**Advanced Display Properties**". Close this window by clicking "**OK** " and confirm the following messages with "**Yes**". Click "**OK**" and "**Yes**" again. The installation is now completed. You can close "**Display Properties**".

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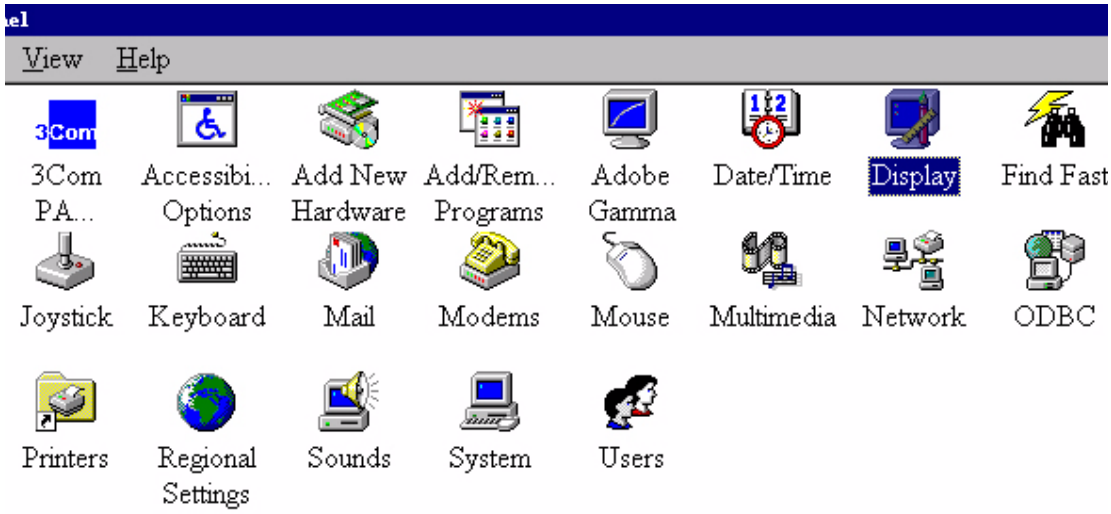
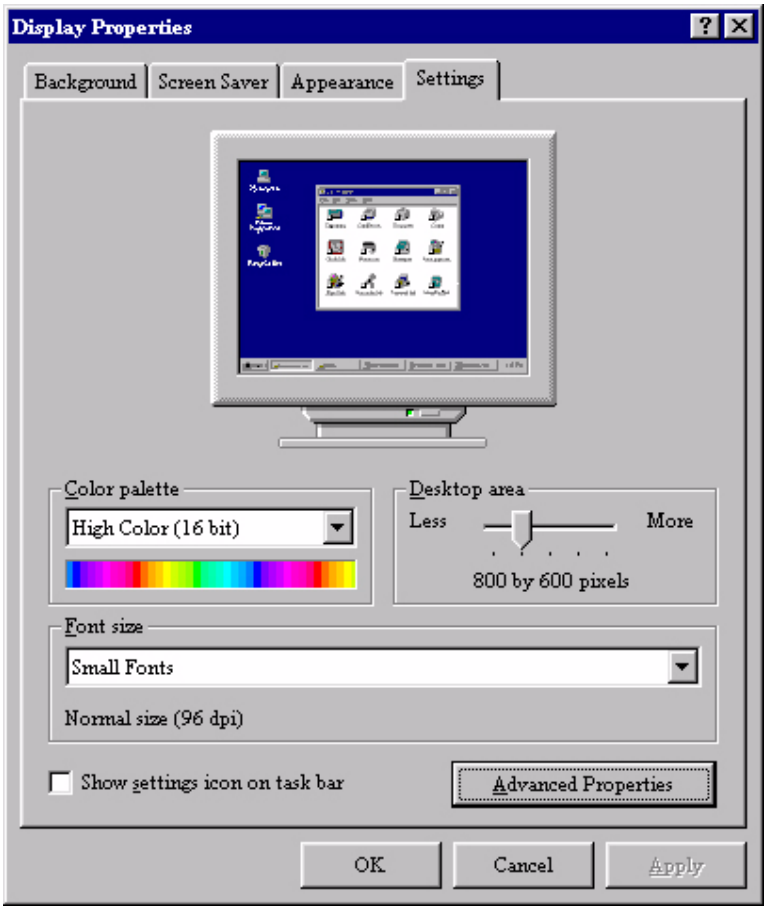
Windows98. To manually install or update the driver, perform the following steps:

1. Open the control panel and double-click "**Display**" icon.



2. From the "**Display Properties**" window, select the "**Settings**" tab. Click the "**Advanced Properties**" button in the bottom right corner.



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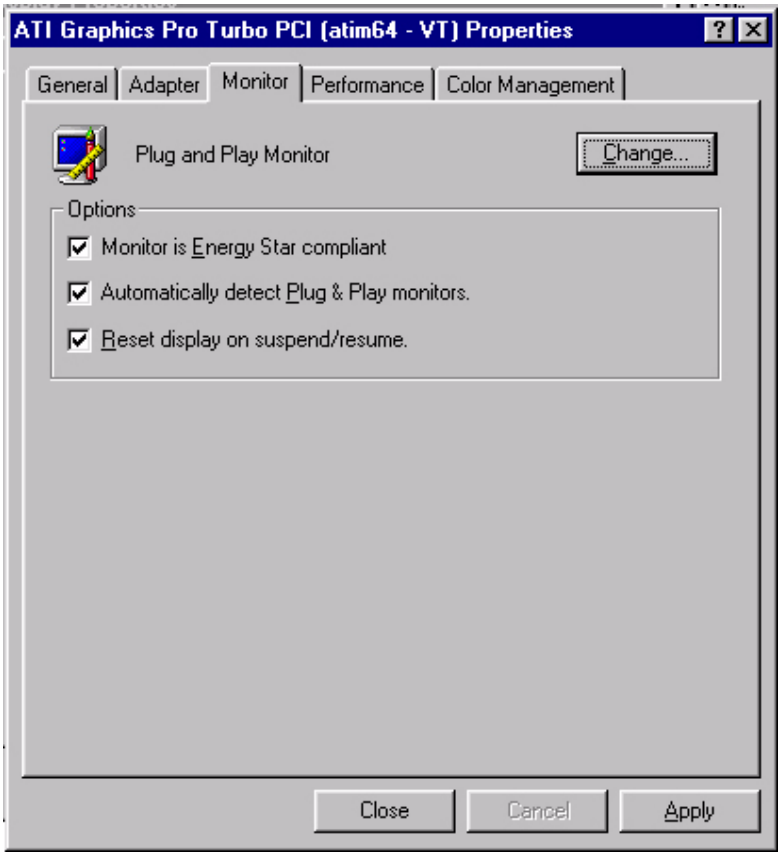
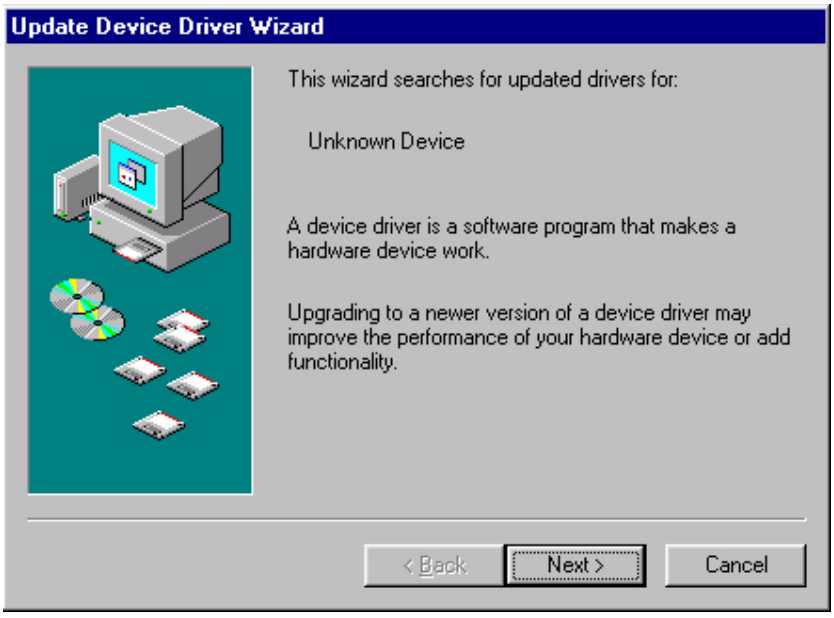
3. Select the "**Monitor**" tab. Click the "**Change**" button in the top right corner.



4. Now the "**Update Device Driver Wizard**" opens. Confirm by clicking "**Next**".


Update Device Driver Wizard
This wizard searches for updated drivers for:
Unknown Device
A device driver is a software program that makes a hardware device work.
Upgrading to a newer version of a device driver may improve the performance of your hardware device or add functionality.
< Back
Next >
Cancel

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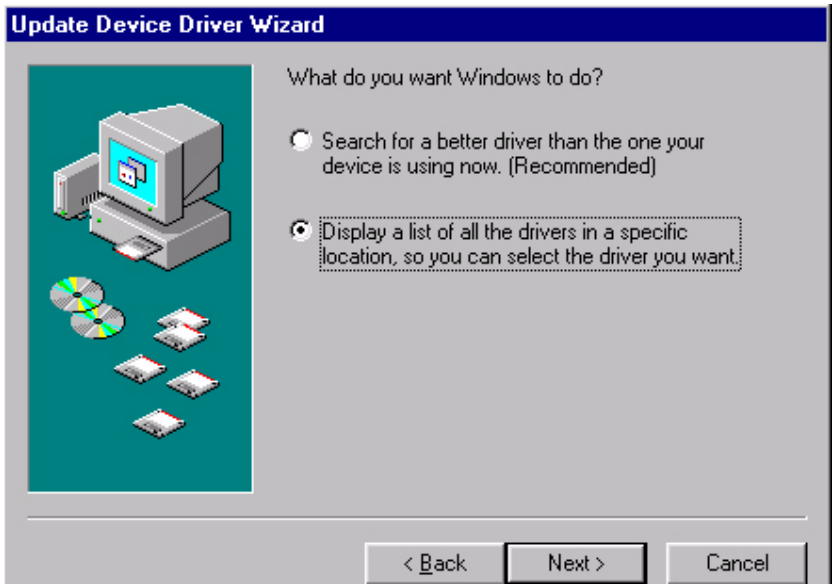
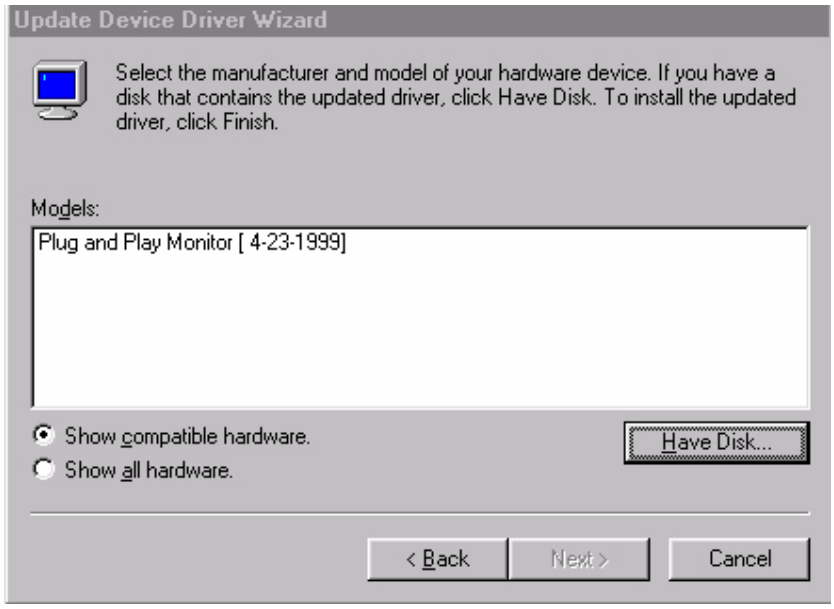
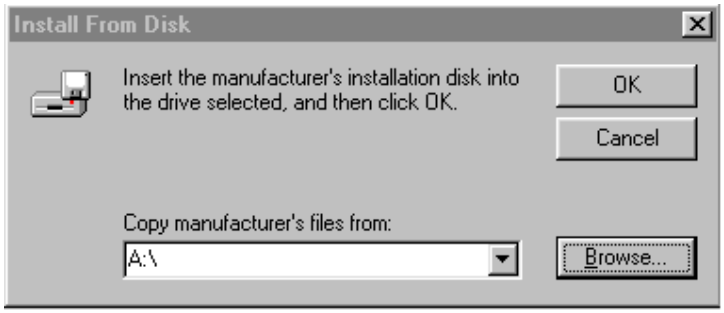
5. Select "**Display a list of all drivers in a specific location, so you can select the driver you want.**" and press "**Next**".


Update Device Driver Wizard
What do you want Windows to do?
Search for a better driver than the one your device is using now. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

6. Now click the "**Have disk**" button in the bottom right corner. Another window appears, select the "**Browse**" button.


Update Device Driver Wizard
Select the manufacturer and model of your hardware device. If you have a disk that contains the updated driver, click Have Disk. To install the updated driver, click Finish.
Models:
Plug and Play Monitor [4-23-1999]
Show compatible hardware.
Show all hardware.
Have Disk...
< Back
Next >
Cancel



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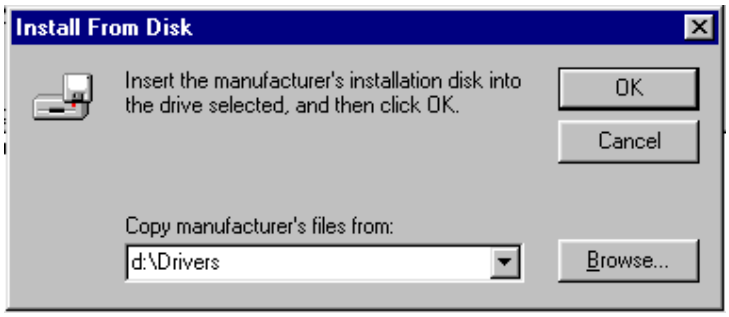
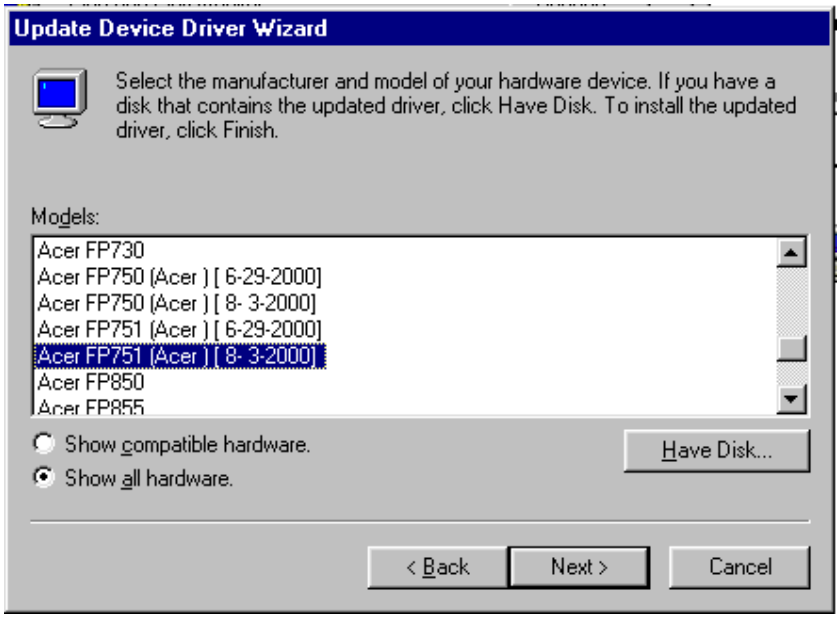
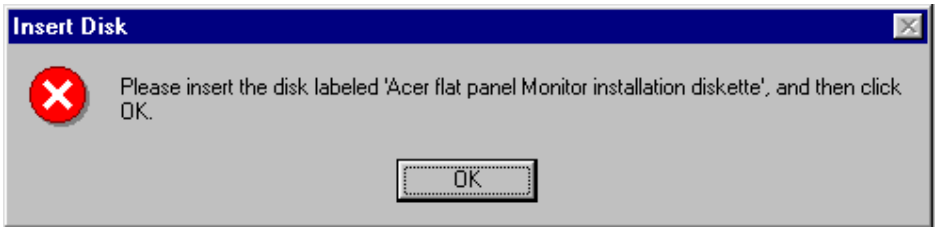
7. The drive selection is located at the bottom of the window in the center. Insert the CD supplied with your monitor into your computer and select the CD-drive.

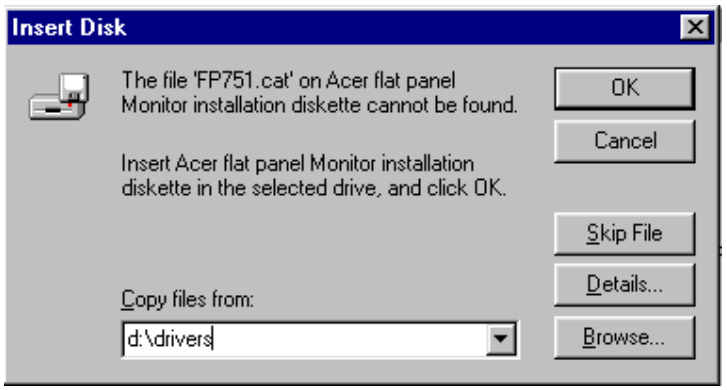


8. By pressing "**OK**" again in the next window you will be given a list of compatible devices. Select "**FP751"** from the list and press "**Next**" again.


Update Device Driver Wizard
Select the manufacturer and model of your hardware device. If you have a disk that contains the updated driver, click Have Disk. To install the updated driver, click Finish.
Models:
Acer FP730
Acer FP750 (Acer) [6-29-2000]
Acer FP750 (Acer) [8- 3-2000]
Acer FP751 (Acer) [6-29-2000]
Acer FP751 (Acer) [8- 3-2000]
Acer FP850
Acer FP855
Show compatible hardware.
Show all hardware.
Have Disk...
< Back
Next >
Cancel

9. A "Insert Disk" dialogue box appears. Click "OK", and then click "Skip File".





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10. Close "**Update Device Driver Wizard**" by click "Finish" to complete the installation.

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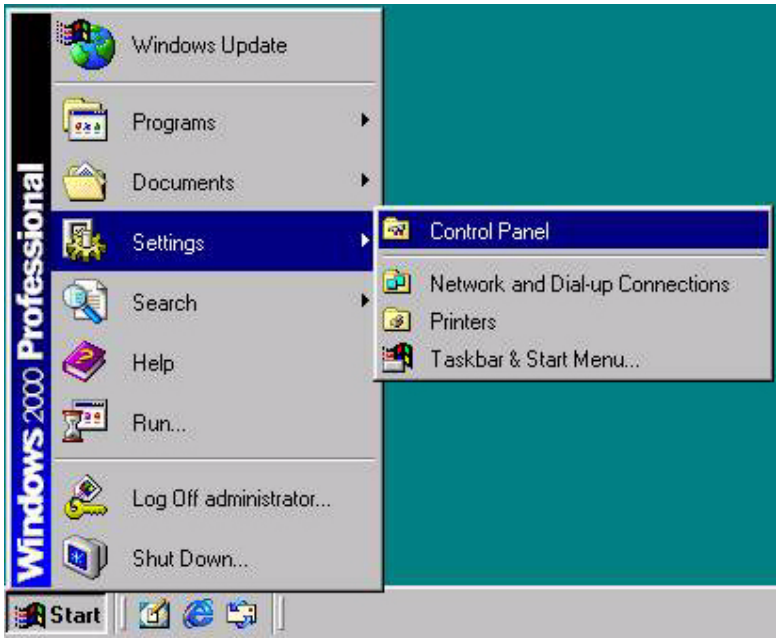
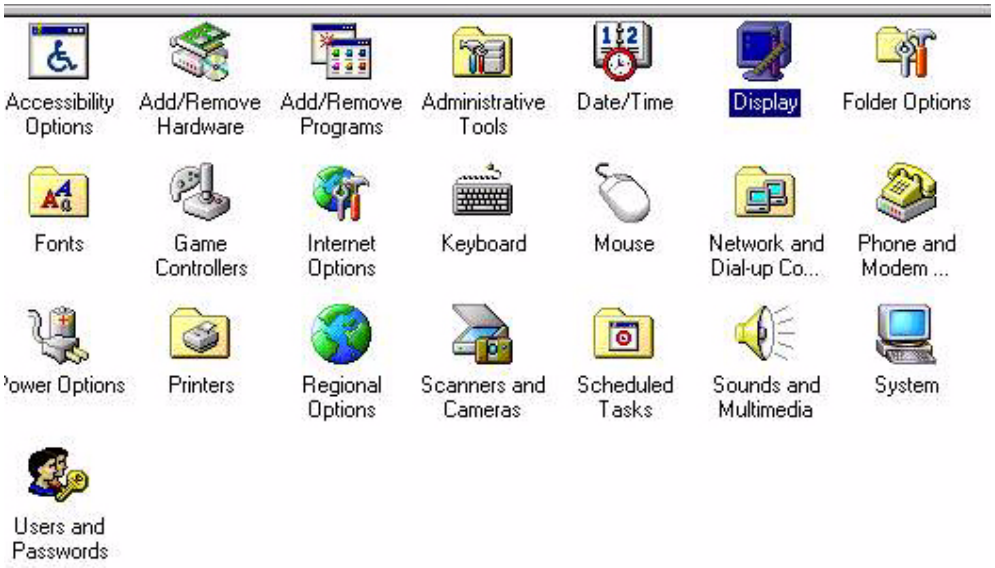
Windows 2000 . The first time you start Windows with a new monitor, the system will detect it and automatically starts with the "**Add New Hardware Wizard**". Carry out the instructions beginning at step 4.

1. Insert "**Acer LCD Monitor**" CD-ROM into your CD-ROM Driver.
2. Click "**Start**" then "**Settings**".



3. Open the control panel and double click on the "**Display**" icon.



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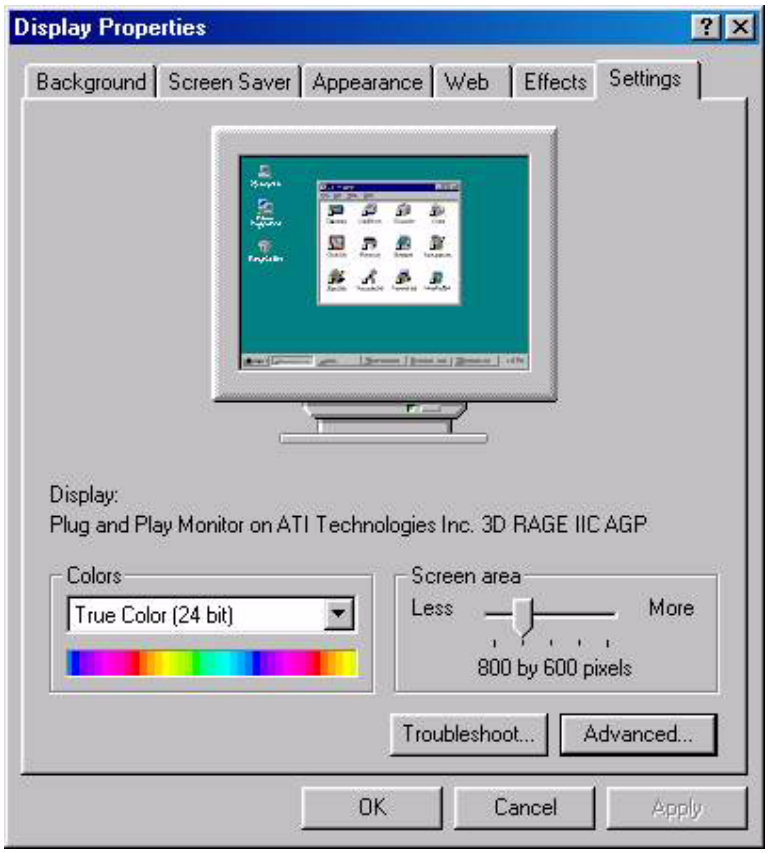
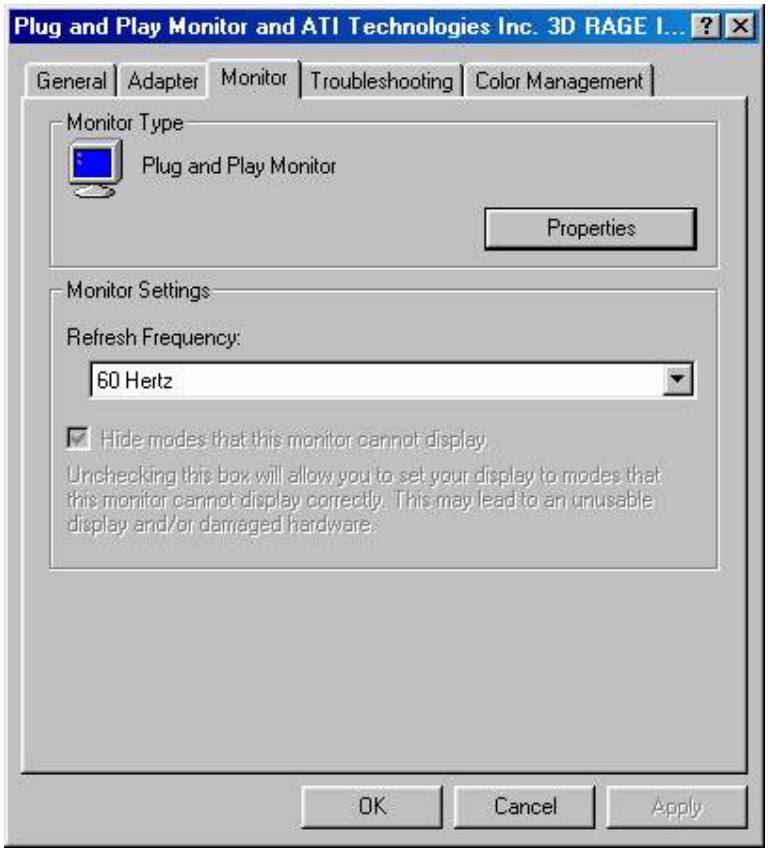
4. From the "**Display Properties**" window, select the "**Settings**" tab. Click the "**Advanced Properties**" button in the bottom right corner.



5. Select "**Monitor**" then click "**Properties**".


Plug and Play Monitor and ATI Technologies Inc. 3D RAGE I...
General
Adapter
Monitor
Troubleshooting
Color Management
Monitor Type
Plug and Play Monitor
Properties
Monitor Settings
Refresh Frequency:
60 Hertz
Hide modes that this monitor cannot display
Unchecking this box will allow you to set your display to modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.
OK
Cancel
Apply

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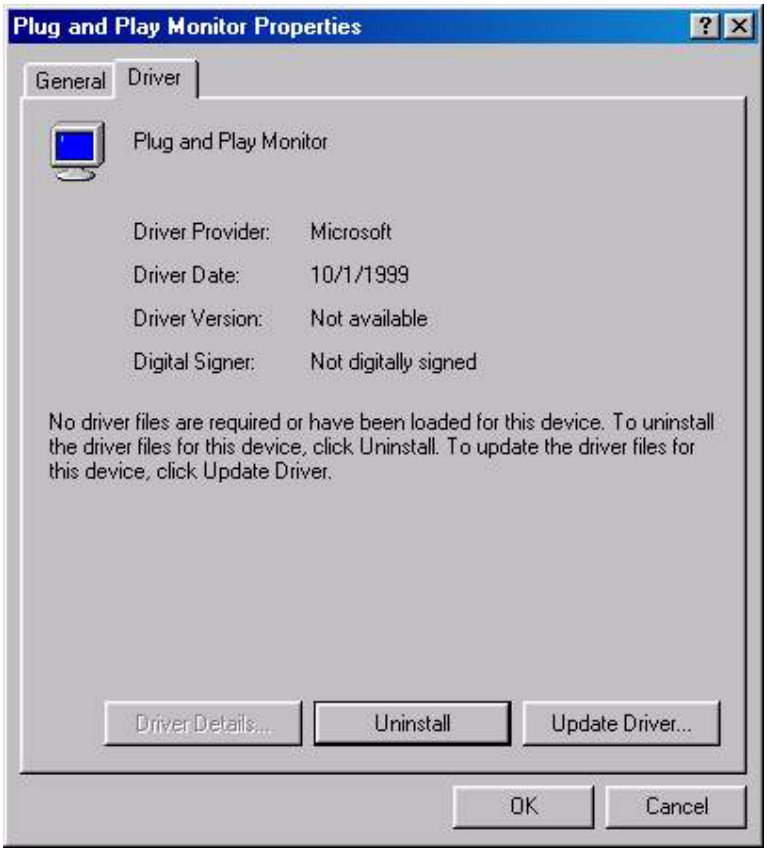
6. Select "**Driver**" tab then click "**Update Driver**".


Plug and Play Monitor Properties
General
Driver
Plug and Play Monitor
Driver Provider: Microsoft
Driver Date: 10/1/1999
Driver Version: Not available
Digital Signer: Not digitally signed
No driver files are required or have been loaded for this device. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.
Driver Details...
Uninstall
Update Driver...
OK
Cancel

7. The "**Upgrade Device Driver Wizard**" will pop up. Then Click "**Next**".

Upgrade Device Driver Wizard
Welcome to the Upgrade Device Driver Wizard
This wizard helps you upgrade a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

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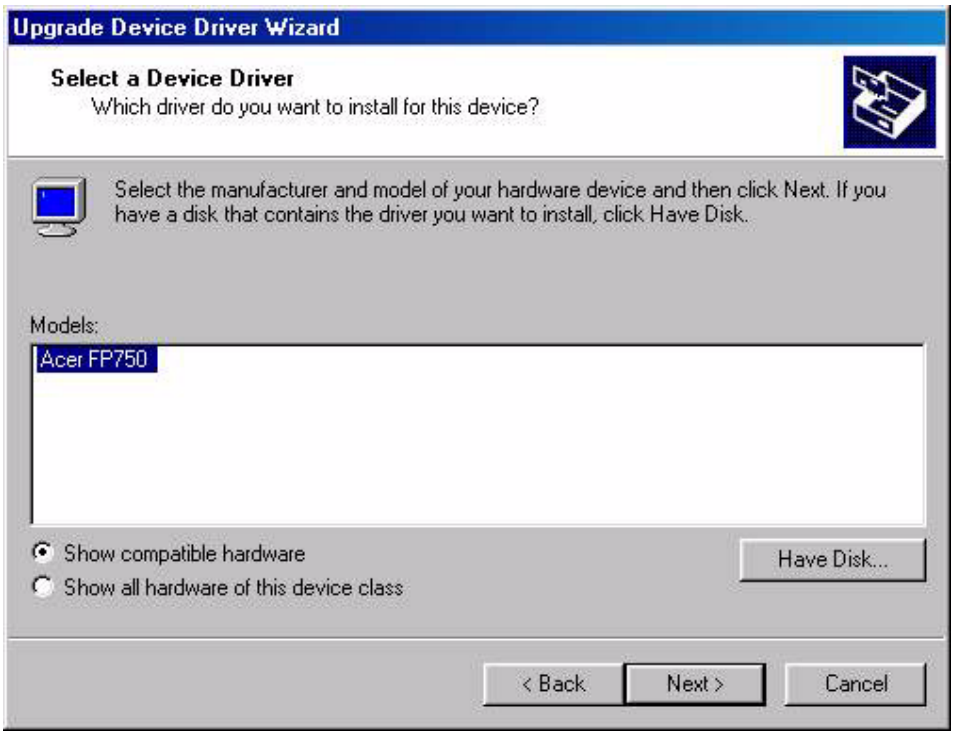
8. Select "**Display a list of the known drivers for this device so that I can choose a specific driver**" then click "**Next**".

Upgrade Device Driver Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard upgrades drivers for the following hardware device:
Plug and Play Monitor
Upgrading to a newer version of a device driver may add functionality to or improve the performance of this device.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

9. In the next window, click "**Have Disk**", then "**Install From Disk**" window will pop up, click "**Browse**", the "**Located File**" will pop up.


Upgrade Device Driver Wizard
Select a Device Driver
Which driver do you want to install for this device?
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Models:
Acer FP750
Show compatible hardware
Show all hardware of this device class
Have Disk...
< Back
Next >
Cancel

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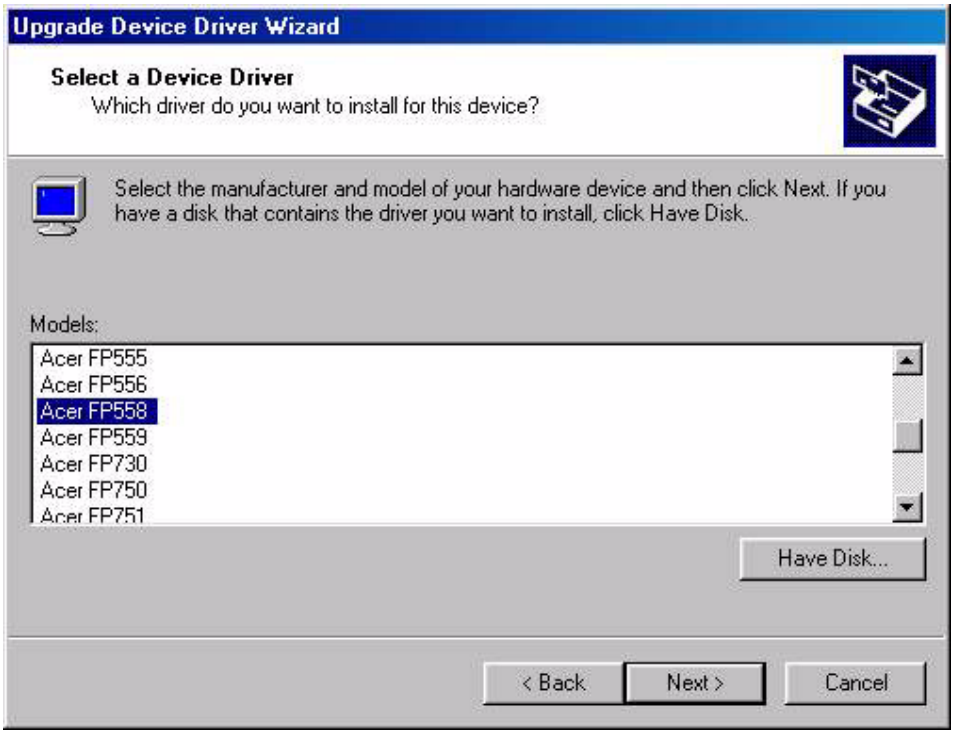
10. In this window, click on the arrow (▼) of '**Look in**" box, then select your CD ROM Drive.


Upgrade Device Driver Wizard
Select a Device Driver
Which driver do you want to install for this device?
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Models:
Acer FP555
Acer FP556
Acer FP558
Acer FP559
Acer FP730
Acer FP750
Acer FP751
Have Disk...
< Back
Next >
Cancel

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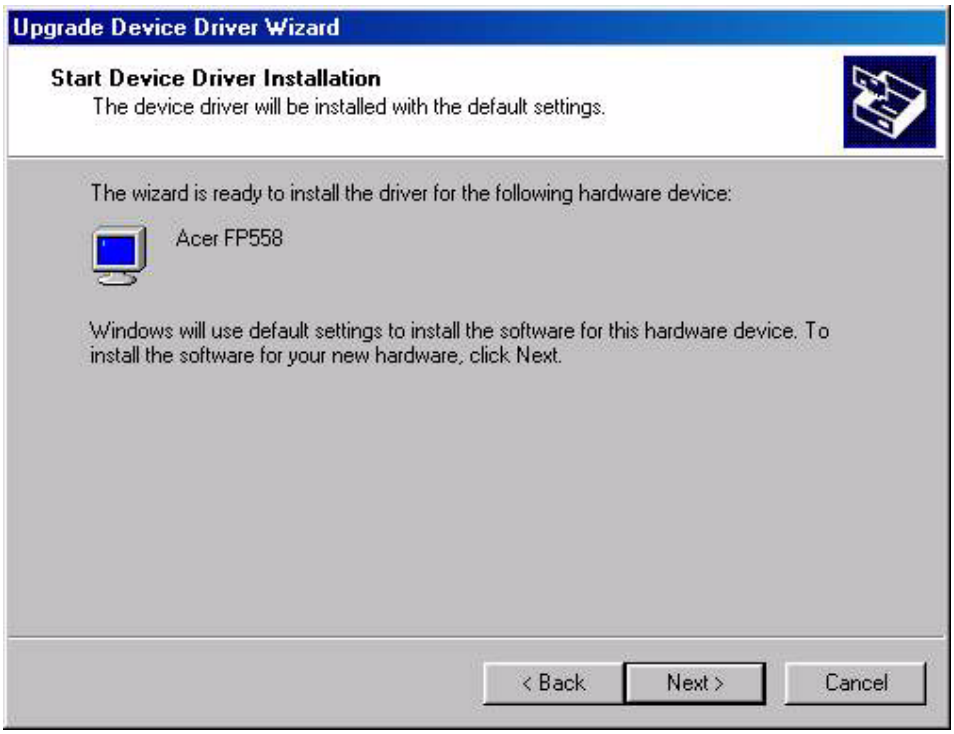
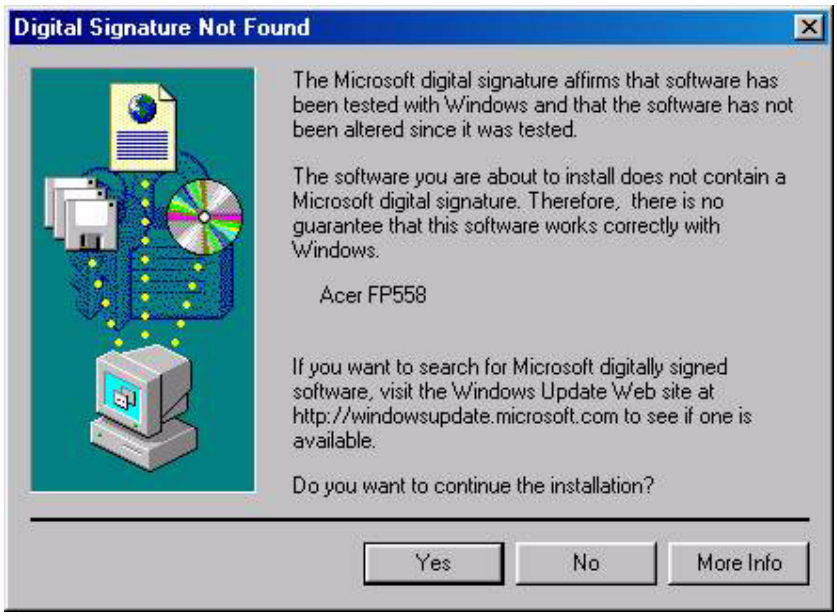
11. In the list of CD-ROM, select "**Drivers**" folder then click "**Open**" twice, then click "**OK**", Select the your LCD Mode (FP751) from the list in the next window then click "**Next**" twice.


Upgrade Device Driver Wizard
Start Device Driver Installation
The device driver will be installed with the default settings.
The wizard is ready to install the driver for the following hardware device:
Acer FP558
Windows will use default settings to install the software for this hardware device. To install the software for your new hardware, click Next.
< Back
Next >
Cancel

12. The "**Digital Signature Not Found**" window will appear, click "**Yes**", then click "**Finish**".


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Acer FP558
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

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13. Now the new drivers are installed to your computer.

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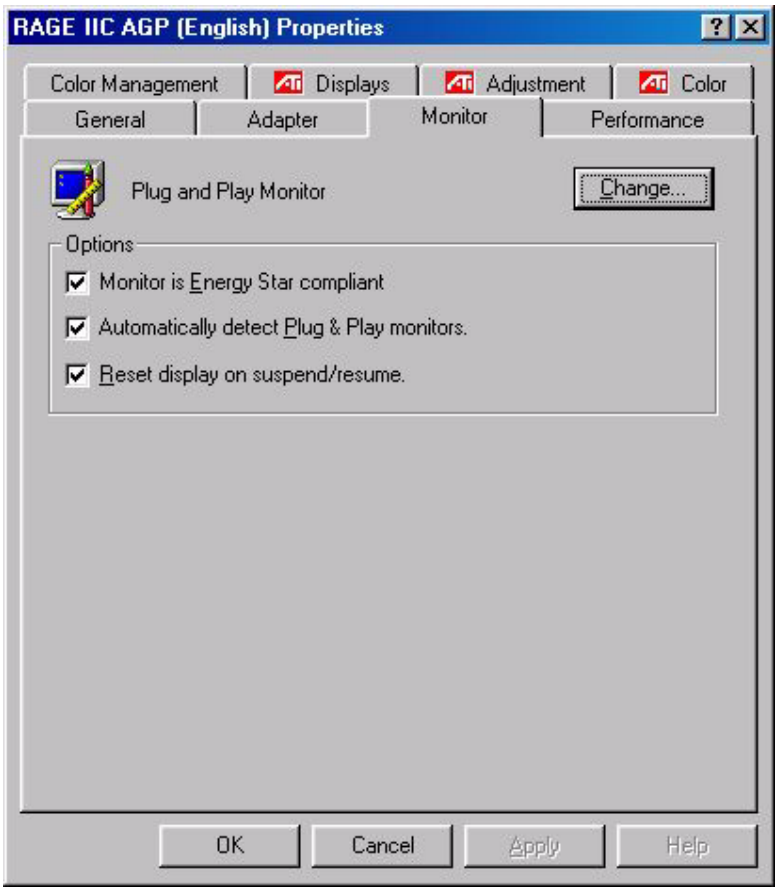
Windows ME . To manually install or update the driver, perform the following steps:

1. Click "Start", "**Settings**", "**Control Panel**" and then double-click "**Display**".
2. In the Display Properties window, click the "**Settings**" tab and click "**Advanced...**".
3. Click the "**Monitor**" tab and then click "**Change**".



4. "**Update Device Driver Wizard**" dialogue box appears. Choose "**Specify the location of the driver (advanced)**" and then click "**Next**".

Update Device Driver Wizard
This wizard searches for updated drivers for:
Unknown Device
Windows can search for and install an updated driver to replace the one currently being used by your hardware. Or, you can specify the location of another driver.
What would you like to do?
Automatic search for a better driver (Recommended)
Specify the location of the driver (Advanced)
< Back
Next >
Cancel

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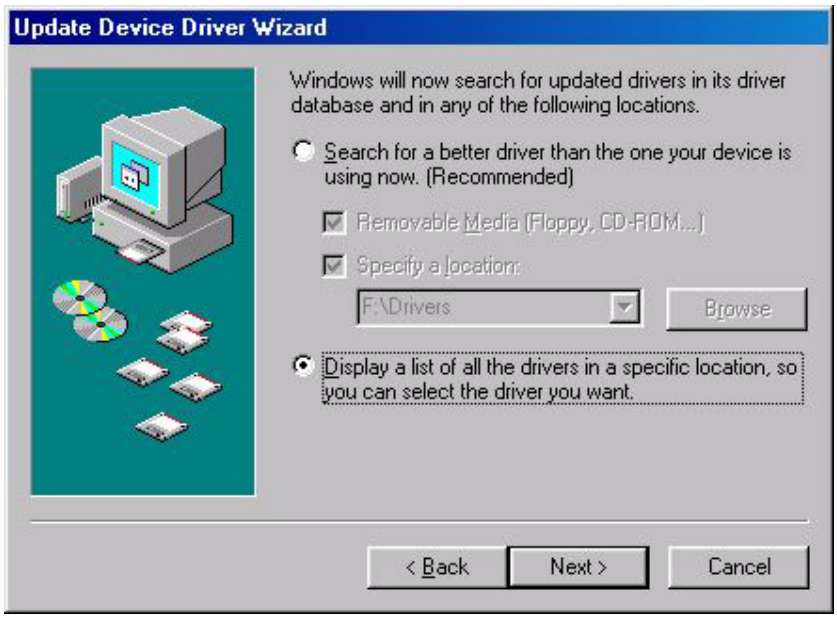
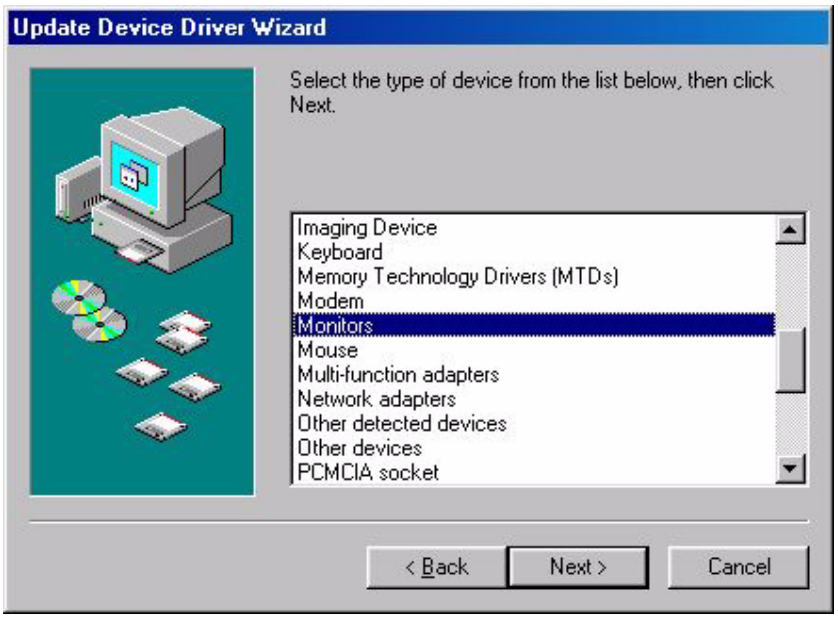
5. Choose "**Display a list of all the drivers in a specific location, so you can select the driver you want**" and click "**Next**".


Update Device Driver Wizard
Windows will now search for updated drivers in its driver database and in any of the following locations.
Search for a better driver than the one your device is using now. (Recommended)
Removable Media (Floppy, CD-ROM...)
Specify a location:
F:\Drivers
Browse
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

6. Choose "**Monitor**" from the list and then click "**Next**".



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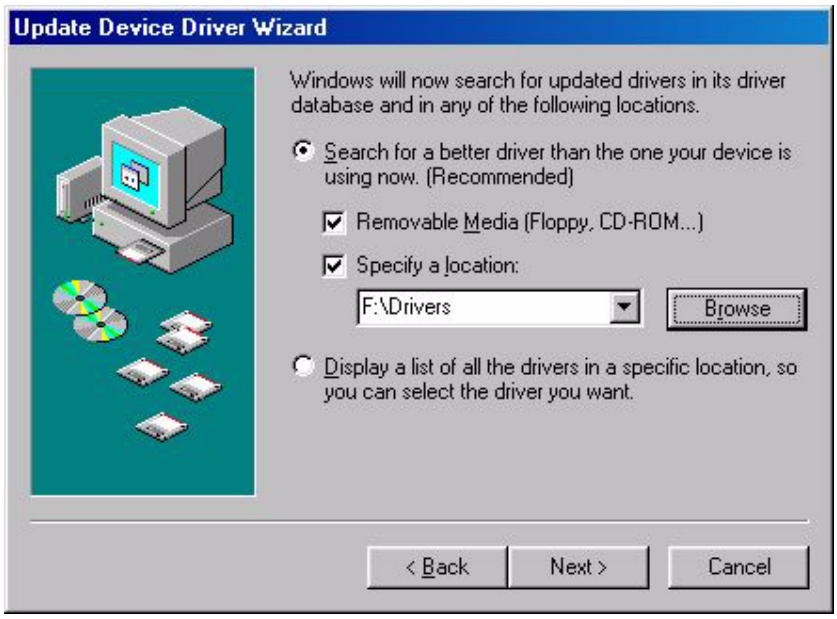
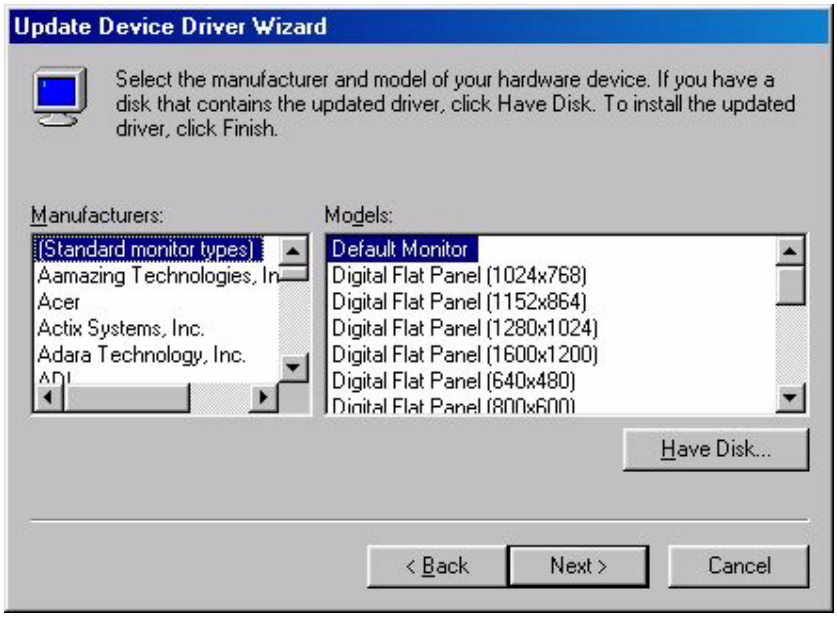
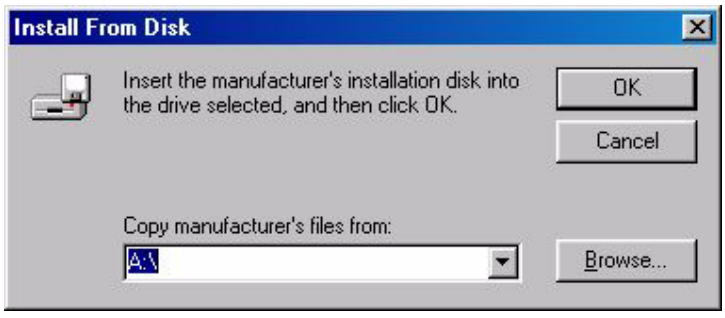
7. Choose "**Display a list of all the drivers in a specific location, so you can select the driver you want.**".


Update Device Driver Wizard
Windows will now search for updated drivers in its driver database and in any of the following locations.
Search for a better driver than the one your device is using now. (Recommended)
Removable Media (Floppy, CD-ROM...)
Specify a location:
F:\Drivers
Browse
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

8. Click "**Have disk**" and then click "**Browse...**".


Update Device Driver Wizard
Select the manufacturer and model of your hardware device. If you have a disk that contains the updated driver, click Have Disk. To install the updated driver, click Finish.
Manufacturers:
Models:
(Standard monitor types)
Aamazing Technologies, In
Acer
Actix Systems, Inc.
Adara Technology, Inc.
Default Monitor
Digital Flat Panel (1024x768)
Digital Flat Panel (1152x864)
Digital Flat Panel (1280x1024)
Digital Flat Panel (1600x1200)
Digital Flat Panel (640x480)
Have Disk...
< Back
Next >
Cancel

9. Insert "**Acer LCD monitor**" into your CD-ROM and type d:\ (change the driver letter to match your CD-ROM driver if it is not drive D). Enter "**Drivers**" folder to select the model from the list left. Click "**OK**".



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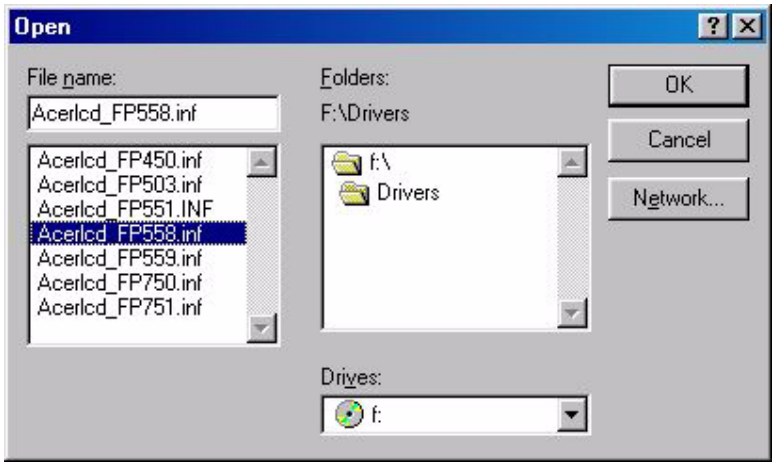
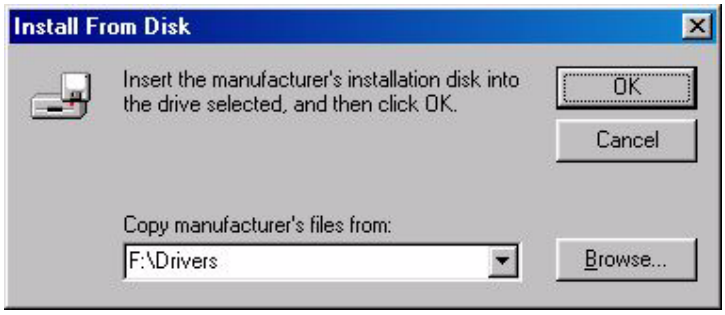
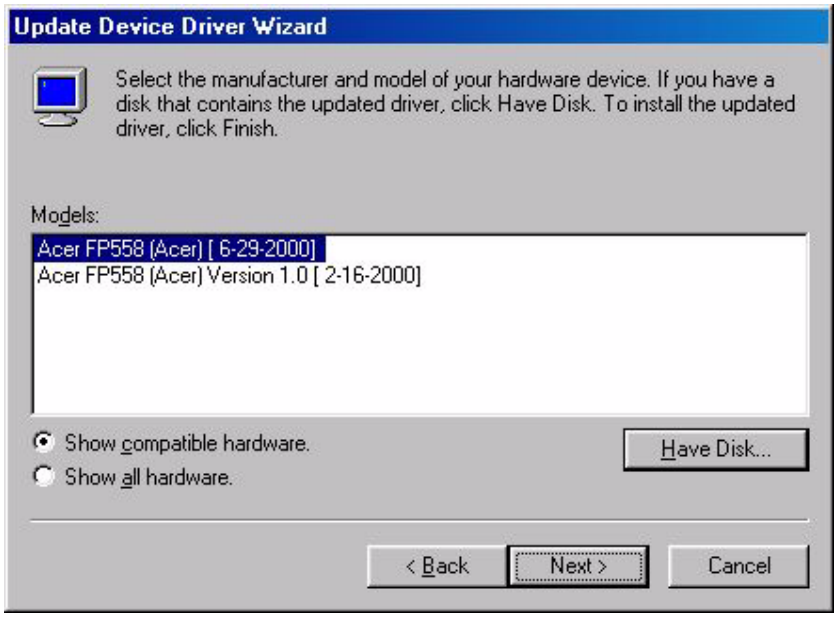


10. Back to "**Install From disk**" and click "**OK**". The dialogue box "**Update Device Driver Wizard**" appears. Choose the model from the list, then click "**Next**".




Update Device Driver Wizard
Select the manufacturer and model of your hardware device. If you have a disk that contains the updated driver, click Have Disk. To install the updated driver, click Finish.
Models:
Acer FP558 (Acer) [6-29-2000]
Acer FP558 (Acer) Version 1.0 [2-16-2000]
Show compatible hardware.
Show all hardware.
Have Disk...
< Back
Next >
Cancel

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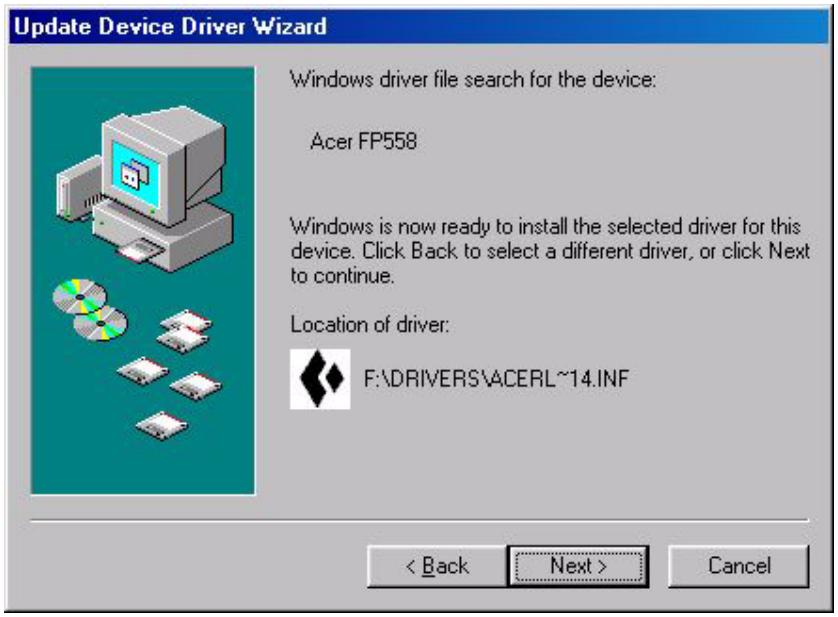
11. Click "**Next**".


Update Device Driver Wizard
Windows driver file search for the device:
Acer FP558
Windows is now ready to install the selected driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
F:\DRIVERS\ACERL~14.INF
< Back
Next >
Cancel

12. Click "**Finish**" to complete the installation.

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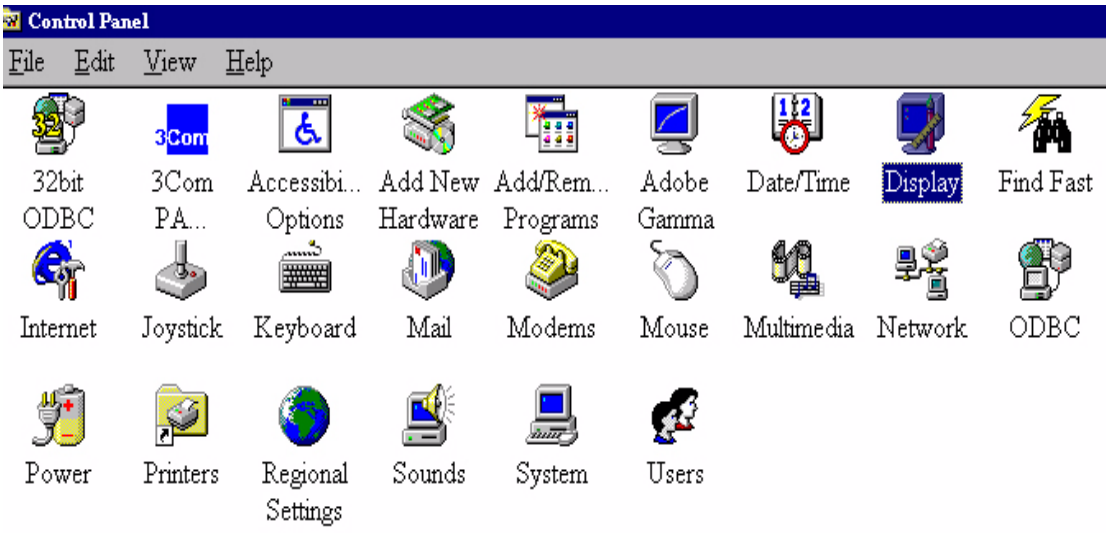
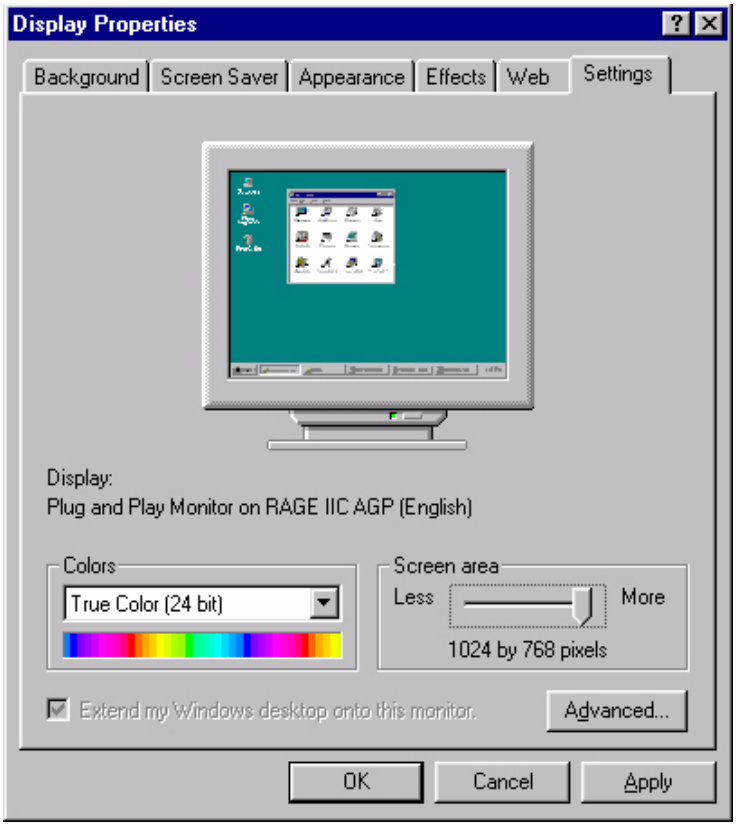
B. Choosing the best resolution

Due to the technology of an LC display, it always provides a fixed resolution. For the FP751 this is a resolution of 1280x1024. This is called the so-called native resolution, which also represents the maximal resolution. Lower resolutions are displayed on a full screen through an interpolation circuit. Flaws do occur with the interpolated resolution compared to the native resolution. If you want to have all the advantages of LCD technology you must use the native resolution. Using Windows 95/ 98 /2000 you can change the resolution as follows:

1. Double-click the "**Display**" icon in the control panel.



2. From the "**Display Properties**" window, select the "**Settings**" tab. There is a slider on the right-hand side in the middle of the window. There you can alter the resolution.
3. Set a resolution of 1280x1024.



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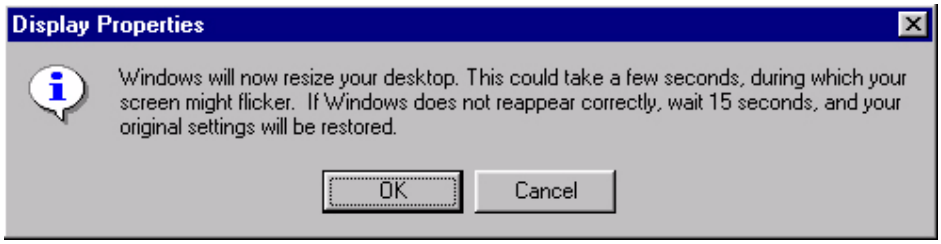
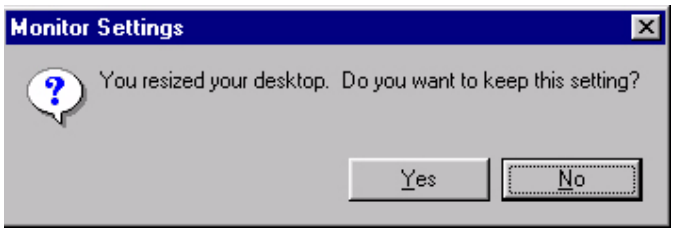
4. In the subsequent windows press: "**Apply**", "**OK**" and "**Yes**".


Display Properties
Windows will now resize your desktop. This could take a few seconds, during which your screen might flicker. If Windows does not reappear correctly, wait 15 seconds, and your original settings will be restored.
OK
Cancel



5. You can now close "**Display Properties**".

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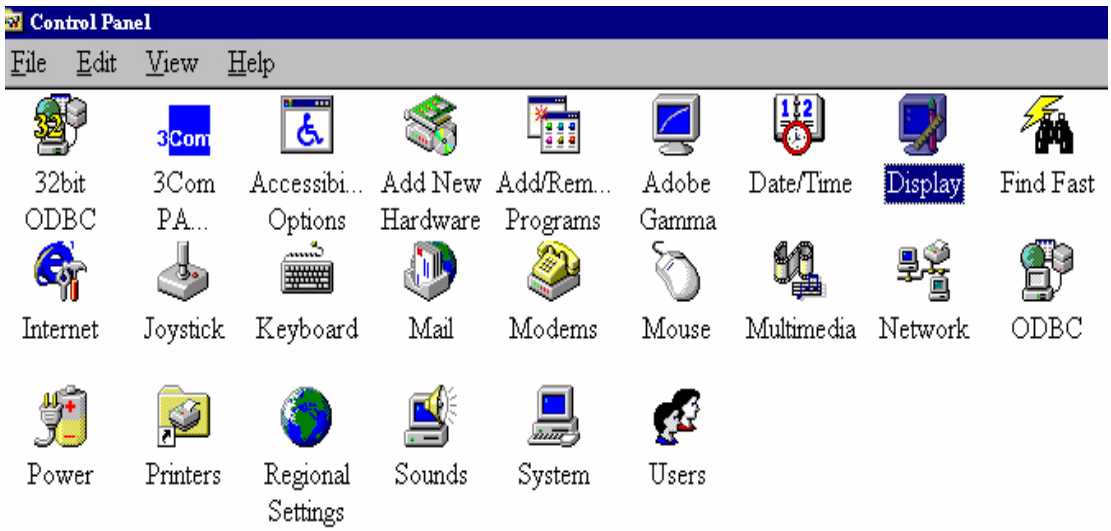
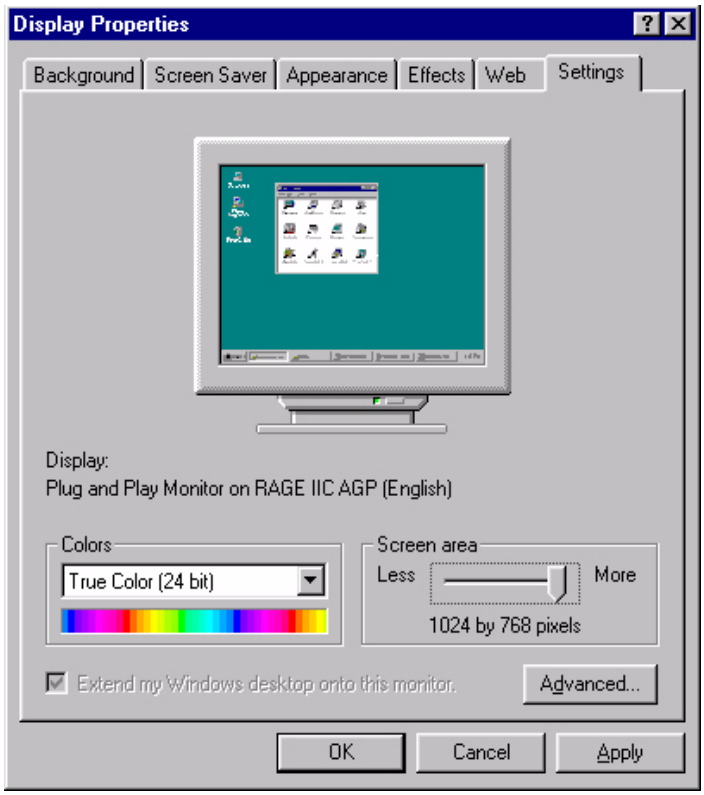
C. Refresh Rate Selection

There is no need to choose the highest possible refresh rate on a LC display. It is not technically possible for an LC display to flicker. Even at a refresh rate of 60 Hz you will get an absolutely flicker-free image. More important is that you make sure that you use one of the factory modes. In contrast to a modern CRT monitor, which is a multiscan monitor, the display is a multi-frequency monitor. This means, the best results are only obtained by using the factory modes. You will find a table with the factory modes in this user's guide. For the native resolution of 1024x768, these, for example, are 60, 70 and 75 Hertz, not 72 Hz, however. In Windows 95/98/2000 you can change the refresh rate as follows:

1. Double click the "**Display**" icon in the control panel.



2. From the "**Display Properties**" window, select the "**Settings**" tab. Click the "**Advanced properties**" button in the bottom right corner.



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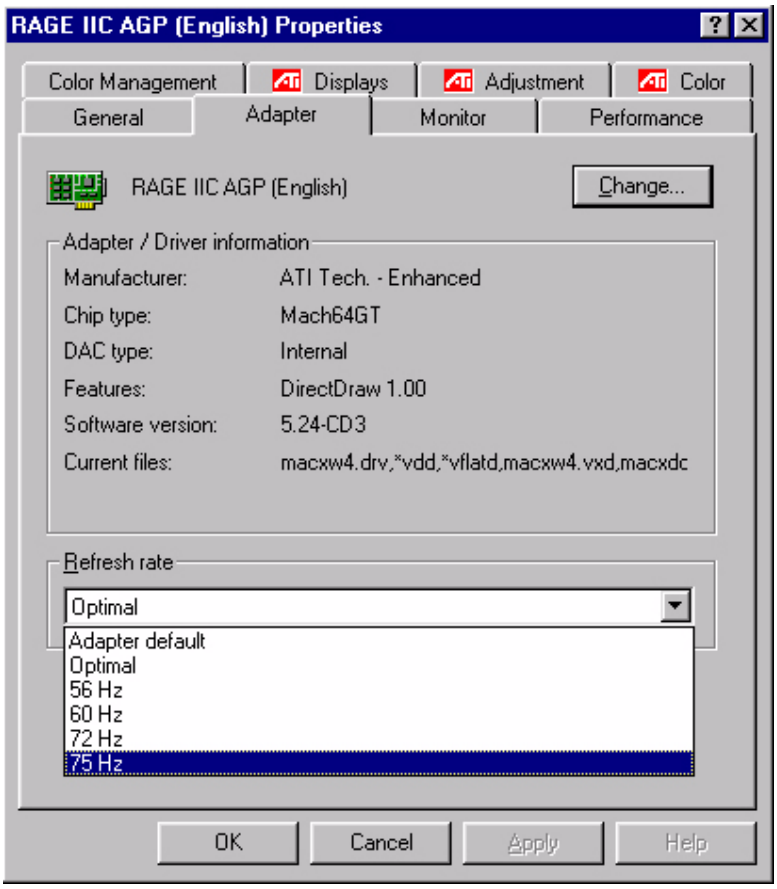
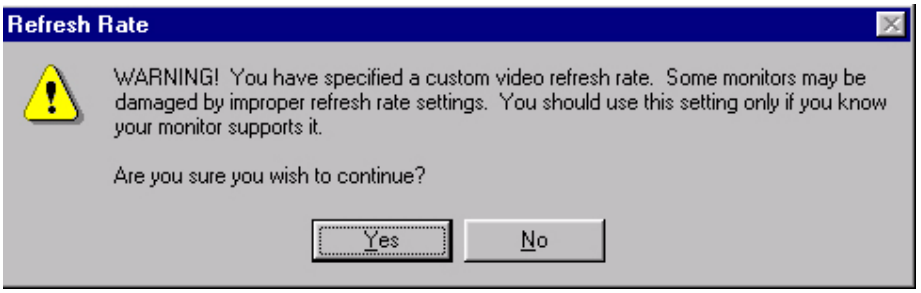
3. Select the "**Adapter**" tab. The refresh rate selection field is located in the center at the bottom of the window.



4. Choose a refresh rate from the table with the factory modes, which can be found in the user's guide, and select this in the settings field.
5. In the subsequent windows press "**Change**", "**OK**" and "**Yes**".


Refresh Rate
WARNING! You have specified a custom video refresh rate. Some monitors may be damaged by improper refresh rate settings. You should use this setting only if you know your monitor supports it.
Are you sure you wish to continue?
Yes
No

Refresh Rate
Windows will now adjust the refresh rate of your display. The screen may flicker for a few moments while the settings are being changed.
If the display becomes garbled or unusable, simply wait and Windows will restore the original settings.
OK

6. You can now close "**Display Properties**".

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D. Picture Optimization

The easiest way to obtain an optimal picture is by using the *ikey* function. This only works reliably, if you use the supplied adjustment software (auto.exe) and if the device is being used in one of the factory modes.

1. Start the auto.exe program from the CD, supplied with the monitor. A test pattern appears.
2. Now press the *ikey*. The device carries out an automatic adjustment. In most cases optimal results will be obtained. You can quit the auto.exe with a single mouse click and clicking on "**Exit**".

If you are still not satisfied with the result, you can still attempt to enhance the image by means of manual adjust.

1. To do this restart the auto.exe test pattern, which is the best way of observing possible changes. You also can use any other image, such as the desktop of an operating system.
2. You can access the OSD menu by pressing the **Enter** button on the monitor.
3. Using the fly-wheel on the monitor, navigate to the submenu for the Geometry values and then press **Enter**.
4. Press **Enter** to enter OSD and use fly wheel to **Clock**, press **Enter** and use fly wheel to adjust **Clock** until the optimum picture appears on your monitor.
5. To Exit **Clock** submenu by pressing **Exit** twice (Geometry submenu).

If you need further adjustment, enter OSD and select "**Phase**" by rolling fly-wheel and then press "**Enter**" to adjust and reach the bset statue. Press "**Exit**" twice to exit the OSD.If you are still not satisfied with the result, repeat the procedure using a different refresh rate.

You must use one of the factory modes. If the *i-key* is not working, or the "**Not supported mode** "message is on the OSD you are not using one of the supported modes. If you are having difficulties generating a supported mode, ask the manufacturer of your graphics card for assistance.

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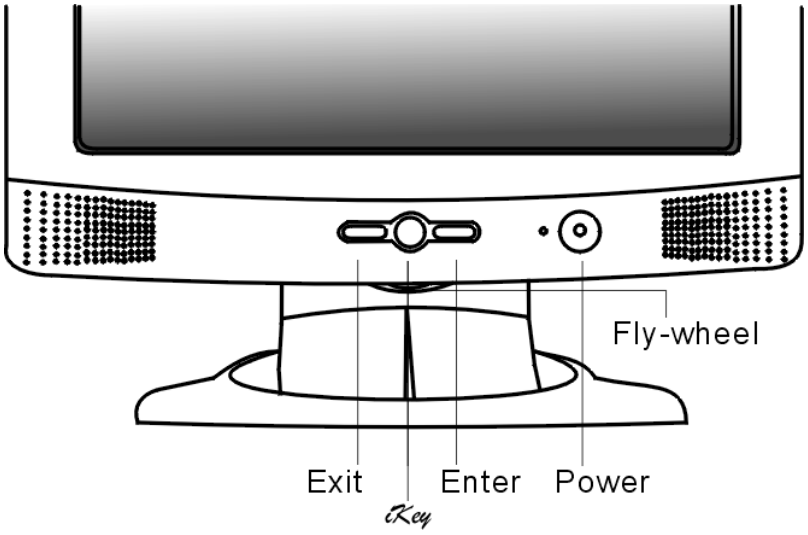
Adjusting the Monitor

A Look at the Control Panel

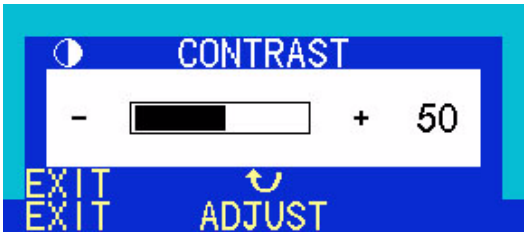


There are 4 keys & one wheel for user's control including "Power", "*iKey*", "Exit", "Enter" and a wheel.The following descriptions are the introduction of these keys & fly wheel.

1. "Power": Turn the power on or off.
2. "*iKey*" : Adjust vertical position, phase, horizontal position and pixel clock automatically.
3. "Exit" key: Back to main menus, save menu or exist OSD menu without saving. Hot key for Audio volume adjustment.
4. "Enter" key: Enter sub-menus, select items or save items.
5. "Wheel": For left / right adjustment. Hot key for Brightness/Contrast adjustment.

Hot Key Mode

Contrast hot-key

1. Roll the fly wheel left to enter the Contrast hot-key mode. 2. Roll the fly wheel to make adjustment. The scale can be adjusted from maximum (100) to minimum (0). 3. Press the "Exit" to save and leave OSD operation.	

Brightness hot-key

1. Roll the fly wheel right to enter the Brightness hot-key mode. 2. Roll the fly wheel to make adjustment. The scale can be adjust from maximum (100) to minimum (0). 3. Press the "Exit" to save and leave OSD operation.	

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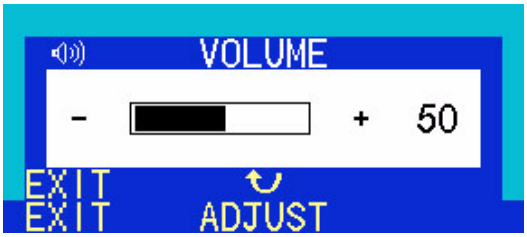
Speaker Volume hot-key

1. Press "Enter" to enter Speaker Volume hot-key mode. 2. Roll the fly wheel to make adjustment. The scale can be adjust from maximum (100) to minimum (0). 3. Press the "Exit" to save and leave OSD operation.	

Main Menu Mode

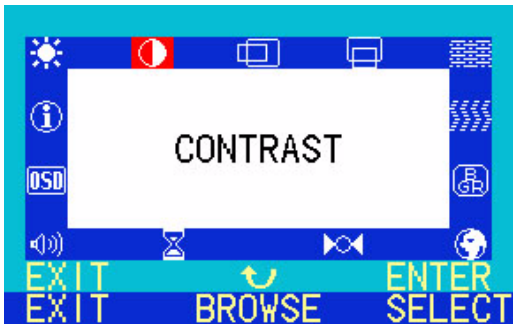
Control Functions Available in Main Menu

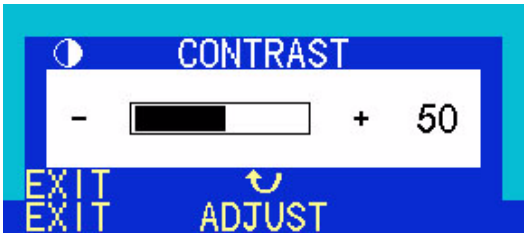
1. ☼ Brightness

Press "**Enter**" to enter adjustment menu. Use fly wheel to adjust brightness and then press "**Exit**" to return to main menu. Or you can roll the fly wheel right to find this function.

2. ◐ Contrast

Press "Enter" to enter adjustment menu. Use fly wheel to adjust contrast ratio and then press "Exit" to return to main menu. Or you can roll the fly wheel left to find this function.





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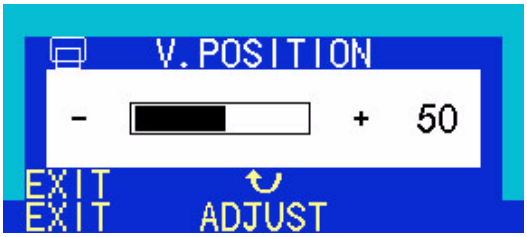
3. Horizontal Position

Press "Enter" to enter adjustment menu. Use fly wheel to adjust horizontal display position and then press "Exit" to return to main menu.

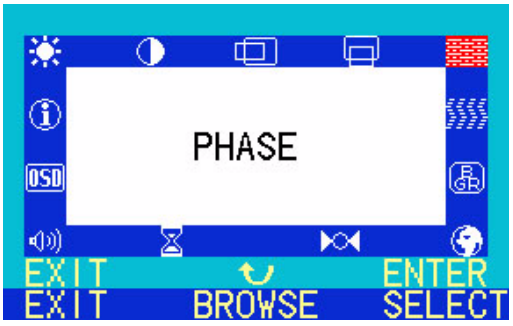
4. Vertical Position

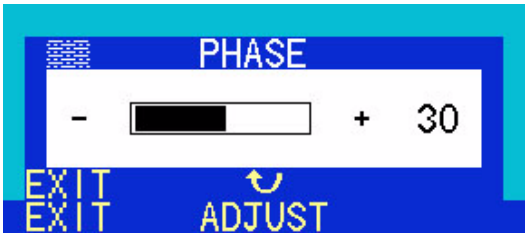
Press "Enter" to enter adjustment menu. Use fly wheel to adjust vertical display position and then press "Exit" to return to main menu.



5. Phase

Press "Enter" to enter adjustment menu. Use fly wheel to adjust phase and then press "Exit" to return to main menu.





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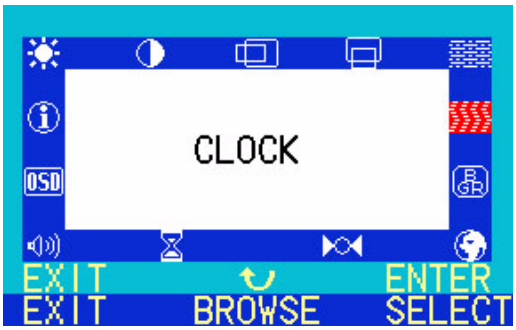
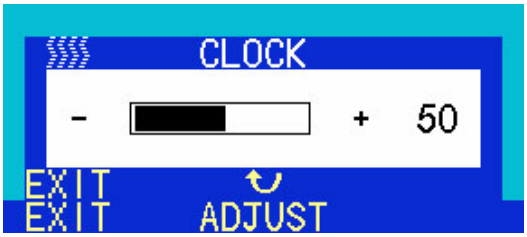
6. Clock

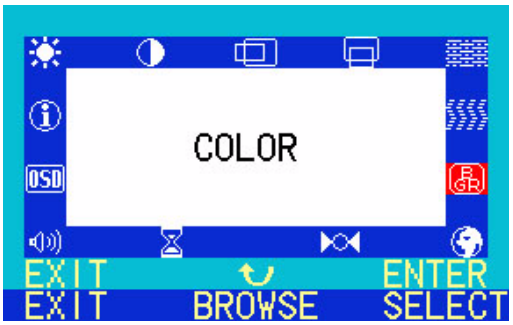
Press “Enter” to enter adjustment menu. Use fly wheel to adjust pixel clock and then press “Exit” to return to main menu.





7. Color

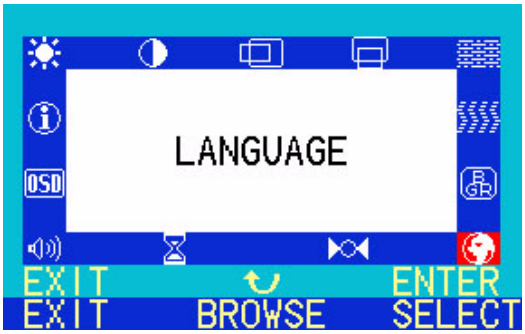
Press “Enter” to enter selection menu. Use fly wheel to choose color temperature or enter user define sub menu to adjust RGB. Press “Exit” to return to main menu.



8. Languages

Press “Enter” to enter selection menu. Use fly wheel to select a language and then press “Exit” to return to main menu.

De: Deutsch **En**: English **Es**: Español **Fr**: Français **It**: Italiano **Ja**: Japanese



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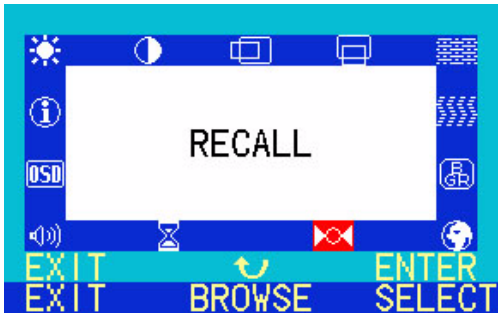
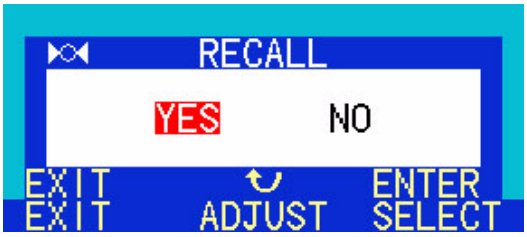
9. Recall

Press “Enter” to enter confirmation menu. Use fly wheel to make decision and then press “Exit” to return to main menu.



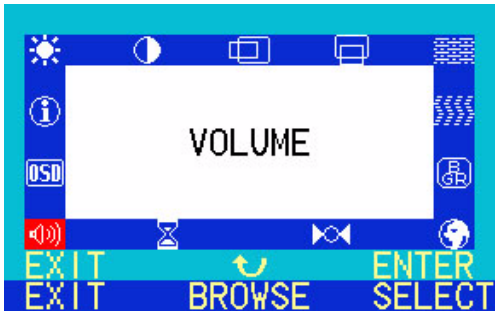


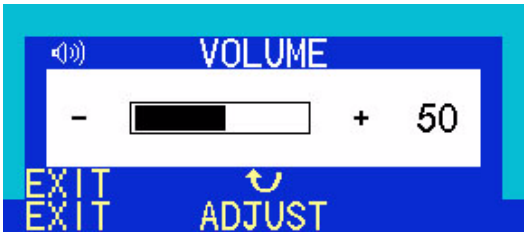
10. OSD Time

Press “Enter” to enter adjustment menu. Use fly wheel to adjust time of OSD operation and then press “Exit” to return to main menu.

11. Volume

Press “Enter” to enter adjustment menu. Use fly wheel to adjust volume of speaker and then press “Exit” to return to main menu.





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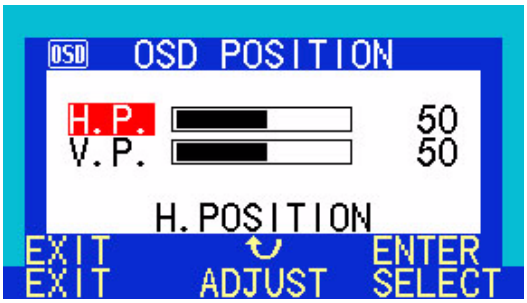
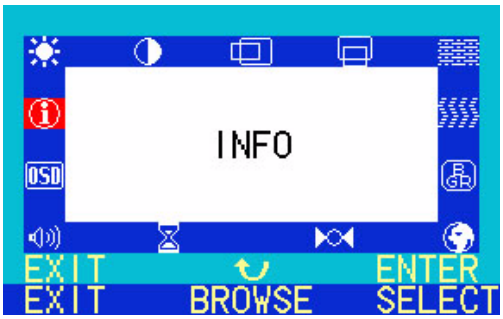
12. OSD Position

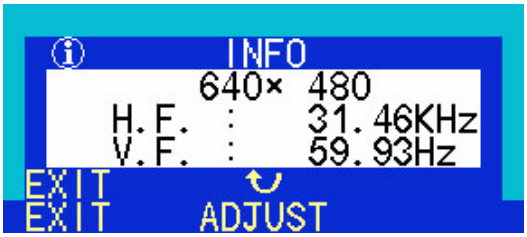
Press "Enter" to enter adjustment menu. Use fly wheel to select horizontal or vertical adjustment then press "Enter" to make adjustment. Use fly wheel to adjust horizontal or vertical display position and then press "Exit" twice to return to main menu.



13. Information

Press "Enter" to show display information (resolution, horizontal frequency and vertical frequency). Press "Exit" to return to main menu.





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Troubleshooting

Frequently Asked Questions (FAQ)

✓ **The image is blurred:**

☞ Read the chapter, Installation/Adjustment and then select the correct resolution, refresh rate and make adjustments based on these instructions.

☞ Do you use a VGA extension cable?

Remove the extension cable for the test. Is the image now in focus? If not, optimize the image working on the description in the chapter, Installation/Adjustment. It is normal for blurring to occur due to conduction losses in extension cables. You can minimize these losses by using an extension cable with better conduction quality or with a built-in booster.

☞ Does the blurring only occur at resolutions lower than the native (maximum) resolution?

Read the chapter Installation/Adjustment. Select the native resolution.

✓ **Pixel errors can be seen:**

☞ One of several pixels are permanently black, one or more pixels are permanently white, one or more pixels are permanently red, green, blue or another colour.

Read the chapter Pixel error rates.

✓ **The image has a faulty colour appearance:**

☞ It has a yellow, blue or pink appearance.

On the monitor press the "Enter" button and using the Fly-wheel move to the "colour settings" menu. Select the "Recall" item and press "Enter". If the image is still not correct and the OSD also has a fault colour appearance, then one of the three primary colours is missing in the signal input. Now check the VGA cable contacts. If any pins are bent or broken off, then contact your dealer or read the chapter, Additional Help, Repairs & Service.

✓ **No image can be seen:**

☞ Is the prompt on the display illuminated in green?

If the LED is illuminated in green, then press the "Exit" button on the monitor to access the On Screen Display. If the message "Not supported Mode" appears there, read the chapter Installation/Adjustment.

☞ Is the prompt on the display illuminated in orange?

If the LED is illuminated in orange, then the power management mode is active. Press a button on the computer keyboard or move the mouse. If that does not help, then check the VGA cable contacts. If any pins are bent or broken off, then contact your dealer or read the chapter, Additional Help, Repairs & Service.

☞ Is the prompt on the display not illuminated at all?

Check the power supply mains socket, the external power supply and the mains switch.

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✓ **The image is or distorted, flashes or flickers:**

☞ Read the chapter, Installation/Adjustment and then select the correct resolution, refresh rate and make adjustments based on these instructions.

✓ **The image is displaced in one direction:**

☞ Read the chapter, Installation/Adjustment and then select the correct resolution, refresh rate and make adjustments based on these instructions.

Pixel errors

Due to the technology used to build LCD-modules, pixel errors are unavoidable. A standard 1024 x 768 display has 786,432 pixels. Each pixel consists of three subpixels (red, green and blue), which means there are 2,359,296 subpixels. This is also the number of driver transistors needed. If you wanted to make sure that every transistor on an LC display is working properly, i.e. that there are no pixel failures, an enormous amount of waste would be produced and the price would also be exorbitant. Error rates have to be specified in order to produce LCD panels for a fair price. These error rates are given to us by the panel manufacturers.

Conditions	Specification
Bright dots	6 dots
Green bright dots	4 dots
Dark dots	6 dots
Total dot defect	8 dots
Continuous defect	2 adjecent bright dots 2 pairs (vertical, except green adjecent dots) (horizontal, oblique)
	3 adjecent bright dots, not allowed
	2 adjecent dark dots 2 pairs (vertical, horizontal, oblique)
	3 adjecent dark dots, not allowed
	Distance between 2 bright dot > 15 mm Distance between 2 bright dot > 5 mm

Need More Help?

If your problems remain after checking this manual, please contact your place of purchase or e-mail us at: DPLservice@acercm.com.tw

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Supported operating modes

Incoming display mode(Input timing)					Multi-scan operation
Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Dot Clock Frequency (MHz)	Remark	Actual display resolution
640x350	31.47(P)	70.08(N)	25.17	DOS	1280X943
*720x400	31.47(N)	70.08(P)	28.32	DOS	1280X1024 full screen
640x480	31.47(N)	60.00(N)	25.18	DOS	
640x480	35.00(N)	67.00(N)	30.24	Macintosh	
640x480	37.86(N)	72.80(N)	31.5	VESA	
640x480	37.50(N)	75.00(N)	31.5	VESA	
800x600	37.88(P)	60.32(P)	40.00	VESA	
800x600	48.08(P)	72.19(P)	50.00	VESA	
*800x600	46.86(P)	75.00(P)	49.50	VESA	
832X624	49.72(N)	74.55(N)	57.29	Macintosh	
*1024x768	48.36(N)	60.00(N)	65.00	VESA	
1024x768	56.48(N)	70.10(N)	75.00	VESA	
*1024x768	60.02(P)	75.00(P)	78.75	VESA	
1024X768	60.24(N)	74.93(N)	80.00	Macintosh	
1152x864	67.50(P)	75.00(P)	108.00	VESA	
*1152x870	68.68(N)	75.06(N)	100.00	Macintoch	
1152x900	61.80(N)	66.00(N)	92.94	SUN 66	
*1152x900	71.81(N)	76.14(N)	108.00	SUN	
1280x1024	64.00(P)	60.00(P)	108.00	VESA	
1280x1024	75.83(N)	71.53(N)	128.00	IBM1	
*1280x1024	80.00(P)	75.00(P)	135.00	VESA	
*1280x1024	81.18(N)	76.16(N)	135.09	SPARC2	

- Modes, which are not listed in the above table, may not be supported. For an optimal picture it is recommended to choose a mode listed in the table.
- You have 22 available modes compatible with Windows.
- It can happen that the image is disrupted. This can occur as a result of a signal frequency from the VGA card, which does not correspond with the usual standard. This is not, however, an error. You can improve this situation by altering an automatic setting or by manually changing the phase setting and the pixel frequency from the "Geometry" menu.
- If you switch off the monitor, interference lines can occur on your screen. But do not be concerned about this, as it is normal.
- To extend the service life of the product, we recommend that you use your computer's power management function.

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Specifications

Model	FP751
Display type	17.0“, active, TFT
Viewable diagonal	43.18 cm
Native (maximum) resolution	1280 x 1024
Colors	16.7 million
Contrast / Brightness	400:1 / 250 cd/m²
Response time	45 ms
Viewing angle (left/right, up/down)	60/60,45/70
Dot Pitch	0.264 mm
Line frequency	31.47 - 60.24 kHz Multi- frequency monitor
Image frequency	56.25 - 75.0 Hz modes within these parameters
Image checks	Digital, *Screen* OSD Technology, *iKey* (automatic image setting)
Controls	mains switch, 2 buttons, one fly-wheel OSD, *iKey*.
iScreen functions	Contrast, brightness, vert. & hor. image position, phase, pixel clock, color balance, color palette, choice of language (6 language OSD), OSD position, status indicator
Power Management	VESA DPMS, EPA
max. power consumption	50 Watt Max
Power saving mode	< 3 Watt
Input signal	RGB analog 0.7 Vpp/75 Ohm positive
Synchronisation	TTL separate
Signal connection	15-pin mini D-sub cable
Temperature (operating)	5 °C - 40 °C
Air humidity (operating)	20% - 85%
Certifications	TCO 99 (Optional), TÜV/Ergonomics, CSA, TÜV/GS, IEC950, FCC Class B, DSNF, ISO 13406-2, VCCI, UL, CB Report, CE, C-Tick, BSMI
Operating voltage	Automatic switched mode power supply, 90-264 V, 47-63Hz
Dimensions (W x H x D)	422 x 451 x 207.97 mm
Weight	6.8 kg

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Appendix: An Introduction to LCD Technology

Principles of LCD Technology

The functionality of LCD (Liquid Crystal Display) screens is based on the special physical properties of liquid crystals. Their rod shaped molecules arrange themselves similarly to the molecules of crystals - always uniformly and in one particular direction. Yet liquid crystals are not set in this orientation, but behave like a liquid: They can be manipulated by applying an electric voltage. The layers of the liquid crystal molecules can therefore be longitudinal or diagonal to the polarising direction of the light and thereby have a varying effect on the course of light waves.

LIQUID CRYSTALS POLARISE INCIDENT LIGHT

An LC display consists of two polarising filters, a control layer, the respective colour filters and the liquid crystal layer.

The light from a background lamp hits an initial polarisation membrane so that only a specific plane of polarisation of the light reaches the liquid crystal layer. Without any external electrical influence the liquid crystal molecules arrange themselves in a screw-like shape between the two vertically aligned polarising filters and the directional structure imposed as a result. The light follows this orientation and is rotated by 90 degrees. The second polarising filter only allows through light with this rotated polarisation. The light valve is open - as a result the controlled pixel lights up.

If an electrical voltage is applied, the liquid crystal molecules orientate themselves along the field lines. The 90' screw is lifted up, the LC molecules appear parallel to the incident light and allow it to pass through without altering the polarising direction. The unrotated light hits the second, rotated polarising filter and is blocked. As a result the corresponding pixel remains dark. The intensity of the departing, visible light can be controlled by means of the voltage applied to the crystal layer and the polarised light rotated to a greater or lesser extent as a result.

The TFT panel

A. The standard TFT panel

With TFT displays, also called active matrix, the light transmitting capacity of each pixel is in each case controlled by a transistor. The pixels can therefore be operated individually and addressed very quickly, which in turn guarantees perfect display even of moving images. With high-resolution LCDs well over two million pixels (three colour dots for the primary colours red, green and blue per pixel) have to be controlled. The voltage is continuously on so that the image does not have to be rebuilt constantly. The great advantage of this is that LC displays do not flicker, even when they are controlled at low refresh frequencies (e.g. at 60 Hz). Because faulty transistors can occur during production, pixel errors resulting from this are unavoidable.

B. The super TFT panel

The super TFT panel works according to the same physical principle. A significantly increased viewing angle can be created through more precise production and through slightly brighter pixels. This, however, is partly at the expense of the gray level resolution.

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C. Comparison of standard and super TFT display

Standard	*Super*
• good gray level resolution • F satisfactory viewing angle	• very good viewing angle • satisfactory gray level resolution
Field of applications: • Image processing • medical field • Standard workstation • Banks (confidential area)	Field of applications: • is several people are working at one screen. • Standard workstation • Presentation tasks • Banks (public area)

Important LCD parameters

A. Viewing angle

The viewing angle is the display's visible field. If one were to imagine a vertical line in the centre of the image and to pivot up and down and to the right and to the left from that point, then that is the viewing angle.†Working ergonomically requires a viewing angle of at least 60°/60° (right/left) horizontally and 45°/45° vertically (up/down). If only two values are specified for horizontal and vertical, the values for right and left, and for horizontal and vertical are added together. If this were the case then this would provide a viewing angle of 120° horizontally and 90° vertically.

B. Contrast

Contrast is the ratio between the light intensity of the brightest and the darkest point of an image. High contrast values improve readability and ergonomics.

A display should in all instances attain contrast values of 100:1. This is a point on which LCD monitors are clearly superior to monitors.

C. Response time

The response time is the time, which a TFT cell requires to switch on and switch off. †For standard applications a response time of a maximum of 70 ms (milliseconds) is sufficient. If a more rapid image build-up is required (e.g. the multimedia field), then values of a maximum of 30 ms are required.

D. Brightness

Brightness is the emitted luminous power over a specified area. Brightness is another point, on which LCD monitors are superior to CRT devices. Traditional monitors create approx. 80 to 100 cd/m² (candela per meter square). In the case of LC displays, values below 150 cm/m² are not acceptable.

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Display errors

A. Pixel errors

Pixel errors are (unfortunately) unavoidable with today's production methods, if you want to manufacture displays at an economically sensible price.

A display with a resolution of 1024x768 dots therefore has 786432 pixels. Each pixel consists of the three sub-pixels for red, green and blue. That makes 2,359,296 individual control transistors. It can occur during production that one or several transistors is defective, which means that pixel errors occur, in which a sub-pixel does not light up at all or does so all of the time.

If you were to accept the same error rate as in the case of the strip mask, for which two horizontal lines are completely disrupted, then you would end up with a 2.6 percent error rate. The accepted error rates for LC displays are far lower, however. If, for example, you were to accept a tolerance of three permitted pixel errors per display, the you would end up with an error rate of 0.0038 per thousand.

B. Blurred image

You can also end up with blurred images with LC displays indeed whenever you depart from the native resolution. A display is built for a set resolution, smaller resolutions can only be displayed interpolated. If, for example, you want to display a resolution of 800x600 on a display with a native resolution of 1024x768, then each horizontal dot would have to display 1.28 dots of the resolution. This doesn't work of course and so intermediate values are calculated and this distorts the original image.

C. Multifrequency as opposed to Multiscan

LC displays require a digital control and because currently there is still no valid standard for a digital control, for the sake of compatibility there is a tendency to revert to the standard VGA connection. This is also ideal for monitors, as they require an analog signal.

The image digitally created in the computer is converted in the graphics card into an analog signal and thus directly controls a CRT monitor. If, however, you use the analog signal of the VGA connection for a digital LC display, then transducer electronics at the input of the display must cater for conversion back into digital signals. Two problems occur with this:

1. conversion losses:

   The image is not so optimal as compared with direct, digital control. It can otherwise be the case that subsequent adjustments are necessary every couple of months on a regular basis. This is generally executed via the OSD or an automatic function)

2. Limitation to specific operating modes:

   Nowadays A CRT monitor is usually a multiscan monitor, which means it can be operated within the limits of its horizontal and vertical frequency, even in non-standard modes. An LCD monitor, in contrast, is a multi-frequency monitor, which means it is only guaranteed to work together with specific modes (see list in the user's guide).

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Comparison of CRT & LCD monitors

CRT monitor	*Flat panel display*
Advantages: • ***Multiscan monitor.*** • ***same quality in all resolutions.*** • ***proven connector standard*** • ***analog (infinite) colour depth*** • ***no pixel errors*** • ***also large proportions*** • ***inexpensive***	***Advantages:*** • ***no geometry errors*** • ***no convergence errors*** • ***excellent brightness and contrast values*** • ***flicker-free*** • ***insensitive to magnetic and electric fields*** • ***low power consumption*** • ***low heat build-up*** • ***small footprint*** • ***low weight***
Disadvantages: • ***geometry errors possible*** • ***convergence errors possible*** • ***limited brightness and contrast values*** • ***only flicker-free from 72 Hz*** • ***sensitive to magnetic and electric fields*** • ***relatively high power consumption*** • ***high heat build-up*** • ***larger footprint*** • ***high weight***	***Disadvantages:*** • ***Multi-frequency monitor.*** • ***best quality only in its native resolution.*** • ***Absence of standards*** • ***limited colour depth*** • ***pixel errors*** • ***no large proportions*** • ***expensive***

Summary

Ultimately, it cannot be said that LCD monitors are superior to CRT monitors or vice-versa either. Rather when choosing which device to use you need to weigh up the advantages and disadvantages in order to decide which technology to use.

In the public and presentational arena, LC displays are definitely preferable over CRT monitors. In relation to the display workstation order, the small footprint is also an important argument and in this respect more favours flat panel displays. On the other hand, when it comes to particular colour depth, or you need a large viewable diagonal, the choice of a CRT monitor is still unrivalled.

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